COMMINICIAL MOTOR

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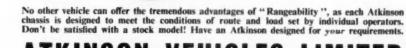


Yorkshire Imperial Metals, Reg. No. LHL.416. Model T.746a with York Trailer. Chassis No. is FC.5475; 6LW Gardner engine; air pressure brakes; 24-volt electrical equipment; 557 direct top David Brown gearbox; 6½ to 1 axle ratio; 9.00 × 20 tyre equipment.

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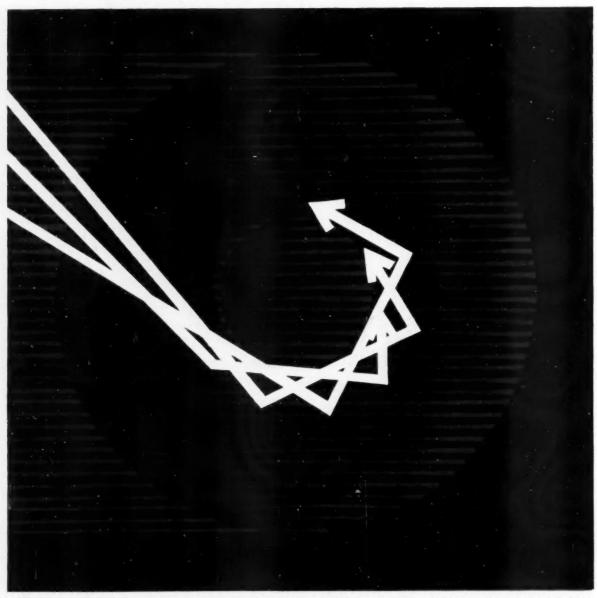
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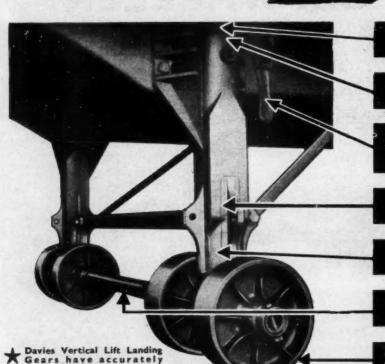
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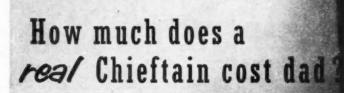
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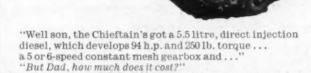
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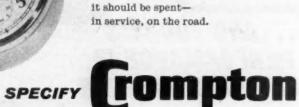
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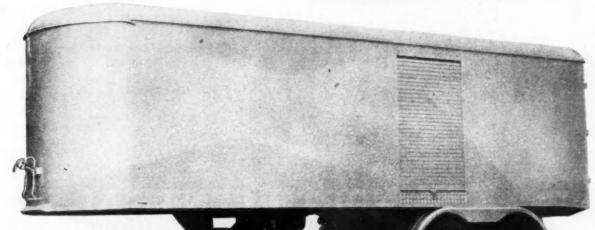




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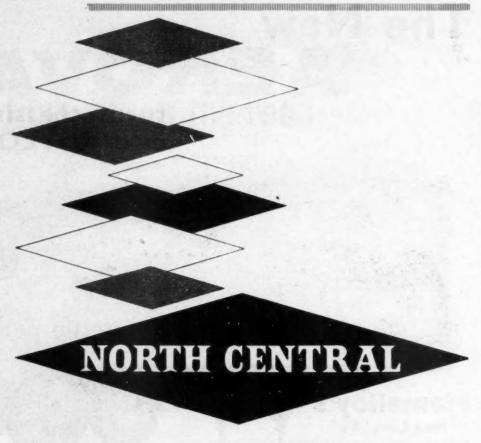
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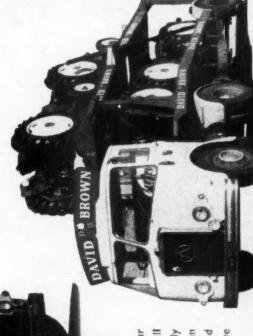
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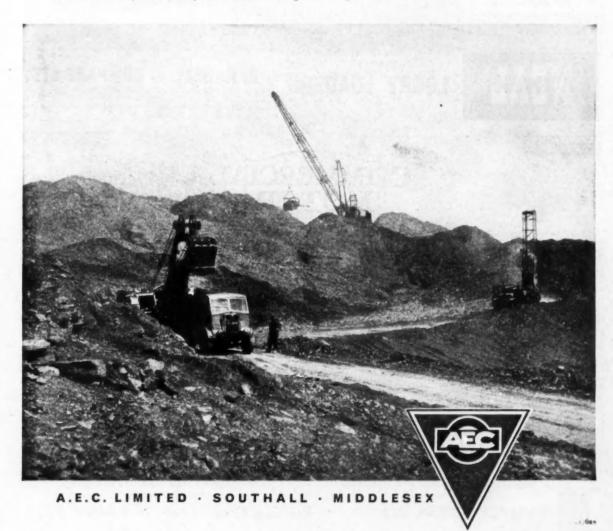
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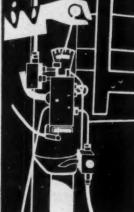
This is what Sir John Jackson's transport chief says about their A.E.C. coal haulage fleet.

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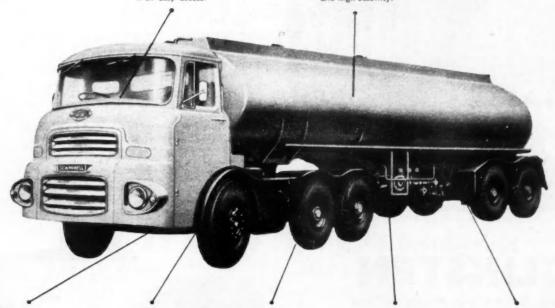
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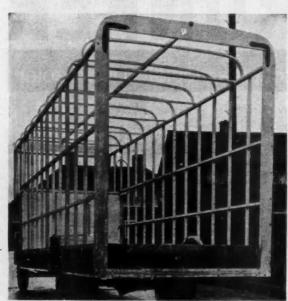
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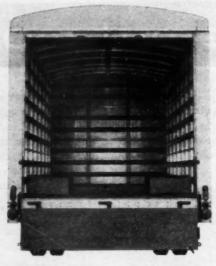
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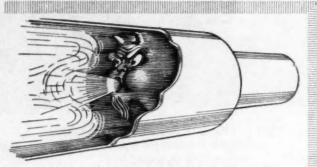
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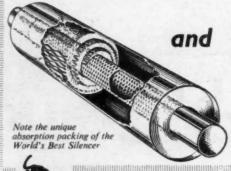
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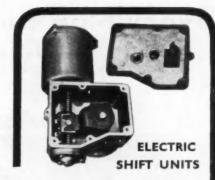
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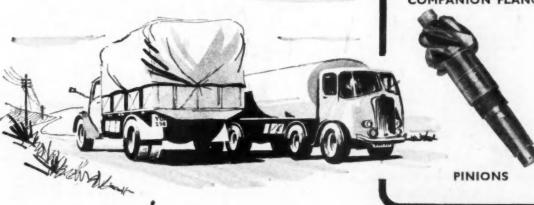
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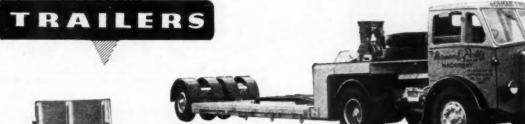
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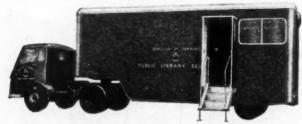
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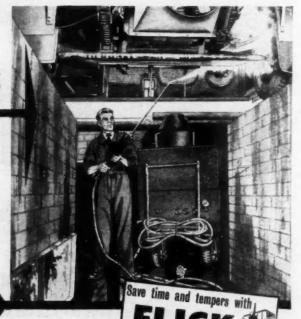
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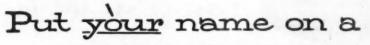
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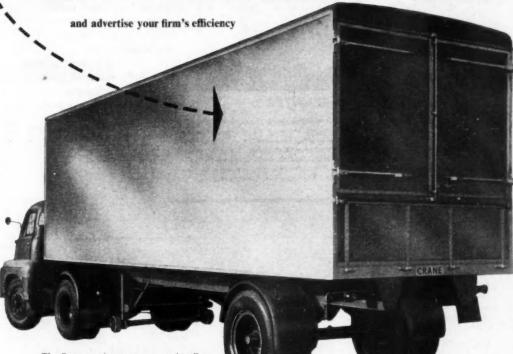
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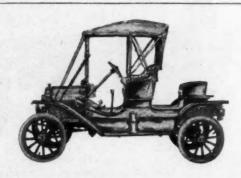
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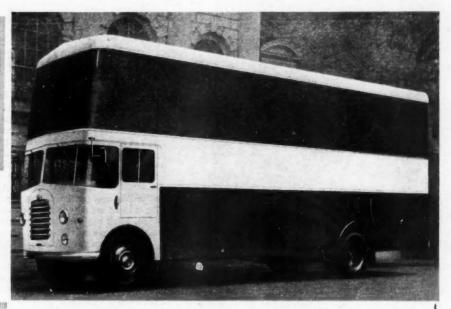
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FEBRUARY 17, 1961 VOL. 113 No. 2896

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A.M.Inst.T.

JOHN F. MOON A.M.I.R.T.E., A.S.A.E.

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Annual Subscription Rate: £3 10s. U.S.A. and Canada: \$10.00.

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Exhaust Brakes Proved

Hautlers and C-licensees seem, apart from isolated exceptions, to be satisfied with the life they are now getting from brake linings. They have so far not shown any appreciable interest in the use of exhaust brakes, one direct result from the use of which is a considerable saving in relining costs. Such is not, however, the case with public service vehicle operators, some of whom seem to be taking a much more lively interest in the advantages of exhaust brakes—probably because their income cannot be varied at will, and so they become much more cost-conscious.

There is no doubt that the cost of an exhaust brake can quickly be recovered in operation. This is made quite clear by the author of an article on page 78 of this issue. The findings of this technical survey, carried out for *The Commercial Motor*, also show that the old red herring about an exhaust brake adversely affecting engine wear is utterly false.

What, in fact, is the case? For something like £50, an operator can have an exhaust brake fitted as original equipment: it would cost about £10 extra if fitted as a modification to an existing vehicle.

What sort of savings are effected? Cases are quoted. One operator saved 28 per cent. on front relining costs and 17 per cent. on the back brakes. Another operator recorded only 50 per cent. of normal lining wear over a 45,000 mileage on each of seven vehicles. Less easily measured, but equally important, is the reduction in driver-fatigue resulting from the use of exhaust brakes. There is also the added safety margin on long descents, reducing the likelihood of severe fade. In fact, one fully loaded coach descended Porlock (1 in 4) on first gear, without using the footbrake at all.

What about these allegations of adverse effect on engine wear? Manufacturers and operators categorically deny this. They also say there are no service problems. After 106,000 miles with an exhaust brake, one coach showed negligible bore wear. At 136,000 miles the bearings were perfect. Standard rings were used on reassembly of the power unit. There is, in fact, a possibility that an exhaust brake prolongs engine life because its use causes a reduction in thermal stressing of valves, head and block.

There is the evidence. Why do operators not show a greater interest in using exhaust brakes? They seem to be missing a small, but useful, improvement to their finances.

Making Work Study Work

JARGON in any context is valueless. At worst it can create antagonisms that need never have existed, and which could prejudice otherwise potentially productive inquiries. Work study unfortunately errs in this respect, and the application of these remarks to transport is apposite. Successful operators are practical men. They are continually making spot decisions, whilst the time factor is inherent in all that they do.

As was shown during the one-day conference on "Work Study in Distribution and Transportation" held in London last week, there are both opportunities and dangers in the application of work study to transport. Mr. B. Fry, when giving the union's view on work study, rightly emphasized that the workers' answer to anyone trying to put over something they did not understand was inevitably: "No." Lines of communication between management and men must be clear from top to bottom when proposed schemes of reorganization are being considered. In such circumstances patience and tolerance are essential. Nevertheless, transport applications can, and do, prove worthwhile.

ISSUE

Survey of Exhaust Brakes

pages 78 to 80

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pages 92 and 93

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= NEXT WEEK =

- Selling Continental Tours
- Tippers—Special Articles

Men Who Make Transport

Alexander



He washed cabs to start-Mr. Alex Samuels.

S IS entirely right and proper, the chairman of the London and Home Counties Traffic Advisory Committee is a Londoner who loves his London and the people in it. Alex Samuels was born in Shoreditch in 1905. Neither the borough nor the era were exactly salubrious, and life on the borderline of poverty was a succession of dismal struggles to eat and pay the rent.

Bird's Eye View =

Not Exactly a Newcomer to Tankers

THE doyen of the British tanker operating fraternity must surely be 86-year-old Mr. John Horrocks, of Handforth, Cheshire, who is still a regular visitor to the Manchester head-quarters of J. M. Horrocks and Sons, Ltd. Here, among other things, he casts his expert eye over the daily loading figures for the vehicles and over the weekly fuel averages. He has been seen at many R.H.A. conferences, and was among those present last October in Blackpool.

The Horrocks family have a long connection with the Lancashire chemical industry. Back in 1897 young John also opened up in local transport with horses and barrel carts. He told me when we met recently how, following receipt of a contract inquiry in his early days, he had a 50-cwt. horse-drawn tank built. Being one with a practical eye, he had investigated the job on the spot and found that when fully laden the journey would be generally on a falling gradient. Thus he was able to budget for a much higher quantity than would normally have been the case and to reduce rates accordingly.

Championed Pay Rise

IT was John Horrocks who in 1900, when Manchester transport drivers were calling for a standard wage of 24s, a week, had the temerity to stand up for them and to obtain substantial support among hauliers for granting the request. Although

nobody else in the organization approaches Mr. Horrocks' length of service, the company has one man with a 45-year record of employment and another who has served 44 years.

Some time after Mr. John Horrocks had celebrated his diamond jubilee in the business, the staff decided to prepare for him a printed record of some of the outstanding incidents in his career and these, together with photographs, were bound into a volume entitled "This Is Your Life." It was presented at the company's drivers' dinner-dance last winter.

Under the Influence

A FEW days ago I was gratified to hear something of the influence which the pages of this journal have upon certain individuals. At a traffic court, a Blackpool haulier wanted to vary the conditions attached to his A-licensed vehicle, which he had bought from an elderly woman some 18 months previously. When admonished by Mr. L. Shelton, the Deputy Licensing Authority, for operating outside the conditions he said: "Well, until a few weeks ago I did not know there were any such things as normal users, but then I started reading The Commercial Motor and found out they existed."

Asked why he had not made inquiries from the vendor as to the vehicle's user, he replied: "Well, she was a woman and over 60. She wouldn't have read *The Commercial Motor* so she wouldn't know."

Samuels

The infant Samuel's father was a hansom cab driver whose earnings were all too often dissipated at the local, and as soon as young Alex was strong enough to lift a bucket he was washing cabs. At 10 he did a milk round and washed the cab at night, attending the local elementary school during the day. It must have been a happy dawn when he was released to become an apprentice at Maudslay Motors, at Ravenscourt Park.

Even that didn't turn out as happily as had been expected. This was the mid-twenties and there was no work to offer the newly trained motor mechanic. For a year, Samuels was on the dole and knew something approaching despair. Yet he had a burning urge to struggle out of the soul-destroying depths of poverty and he was quite prepared to expend the whole of his talents and energy to earn the security and comfort he had never known.

He was fortunate. He found a job as a taxi-driver, and it was while he was amassing the geography of London necessary to get his licence that he really learnt to love the town. He found that training a fascinating experience and his knowledge of the metropolitan boroughs is as profound today as it was then.

It did not take him long to realize that there was more in taxi-work for him if he owned his own cab. The only difficulty, and one which had been with him all his life, was the lack of money. This was overcome by resorting to a loan club run by his local public house, and with this money in his hand he was able to put down the deposit on a Unic taxi.

In a year or two, the Unic was joined by a second and then a third cab. Alex entered into partnership with his brother Joseph and the two of them worked extremely hard driving, doing their own maintenance and building up the sizeable fleet of the Great Cambridge Garage. Today, the fleet numbers about 100 cabs, one of which was used by

By The Hawk=

Into Top Gear Now?

MAN who won't be lost for something to do in his retirement is 67-year-old Mr. Cecil Granville Corfield, of Sale, Cheshire, who this month leaves his job at the Ministry of Transport offices at Manchester. Since 1931 he has written more than 30,000 "Letters to the Editor" and newspapers and magazines can expect to be hearing from him many more times in the future.

Why does he make these letters his hobby? "Why does anybody want to climb Everest?" he replies. His average? About three letters a day.

1 wonder how many editors have been tempted to reply to Mr. Corfield: "Dear Sir, unless..."?



the B.B.C.'s Mr. Peter Dimmock in the recent Monte-Carlo Rally.

Around 1935, Alex Samuels was introduced to local affairs by the daughter of another great Londoner, George Lansbury. He was persuaded to accept a seat on the Shore-ditch school management board and immediately found a new interest, at once personally satisfying and useful. At the same time, perhaps conscious of his own rudimentary schooling, he signed on at the Polytechnic and took mechanical engineering. He was then 30, an age when it is not too easy to absorb new theories and techniques. Today he is proud of his A.M.I.Mech.E. and membership of the Institute of Transport.

During the war, Samuels became a flight-lieutenant, R.A.F.V.R., instructing in the training branch. With the peace and a shattered London to return to, he was elected to Shoreditch Borough Council where he speedily found himself a vigorous member of the Highways Committee. In that capacity, he was appointed to the London and Home Counties Traffic Advisory Committee in 1946, to which body he has devoted much of his time ever since.

He has served successive Ministers of Transport in an advisory capacity on many occasions. He was chairman of Mr. Barnes' special inquiry into London traffic congestion (1951), a member of Mr. Lennox-Boyd's working party for car-parking (1953), Mr. Boyd-Carpenter's speed limit inquiry (1954) and Mr. Watkinson's special survey on parking meters (1956). He is also a member of the Departmental Committee on Road Safety and vice-president of the London Accident Prevention Council.

Rare Distinction

Although he is no civil servant, he occupies today an office placed at his disposal at the Ministry of Transport's new building in Southwark Street. A rare distinction for a voluntary adviser. Here he is to be found on four days in the week, doing a job that absorbs and delights him.

Alex Samuels is a man who enjoys meeting people. He likes to hear and consider their points of view, and he is an excellent conversationalist himself. His talk barely conceals a real warmth and understanding of individuals, even when he is suggesting a possibly unpalatable solution to a traffic problem. He knows very well that if London's streets are to be used for their presumed intention of allowing traffic to move, not everyone is going to be satisfied. Yet he would never agree to using the bulldozing powers of compulsory purchase to make way for road development if it meant destroying the homes of Londoners.

A self-confessed compromiser, he knows that time will provide the answer to most problems. For the immediate future, he has many plans in hand to alleviate the situation of near stagnation that is upon us. He speaks highly of his Minister as a man both of ideas and action, and he is very clear about the relationship between priorities and available finance. He is determined to play his part in making it possible to move round on London roads without the necessity for wholesale demolition, balancing the legitimate claims of road user and householder alike. Drastically to alter the character and shape of London could, he feels, hold social evils greater than the threat of congestion itself. He might be right at that.

Dapper Mr. Samuels, elegant of suiting, tie and carnation, warmly friendly, suavely courteous even under the fire of criticism, has the best qualities of the adviser in high places. He has no axe to grind, he has real knowledge of his subject, and he has balance of mind that is enviable when dealing with large committees. Moreover, he has the optimism and the will to solve a gigantic problem. Given time and co-operation, he will see that the greatest good is done for the greatest number. Let us wish him well. T.W.

Mr. A. E. Sherlock-Mesher

MR. A. E. SHERLOCK-MESHER has relinquished his position as Editor of The Commercial Motor.

Mr. Alan Havard has been appointed Acting Editor.

War Over Derv Tax Declared on Chancellor

By our Parliamentary Correspondent

THE campaign for a Budget reduction in the rate of tax on derv has started. Last week Mr. Anthony Barber, Economic Secretary to the Treasury. answered Commons questions about the tax, and the following day he listened to the views of a deputation from the Joint Fuel Tax Committee for the Passenger Road Transport Industry.

Speaking in the House, Mr. Barber told Mr. Frank Allaun (Labour, Salford East) that representations for a reduction in the tax had been received from the Joint Fuel Tax Committee and other

sources.

Mr. Allaun said that this tax of 2s. 6d. a gallon, or 200 per cent. of the basic cost, had been responsible for the steady contraction of bus services and the increase in fares. It was a shocking anomaly that while oil for other purposes was entirely tax free, oil for bus services was burdened with this heavy tax.

A national campaign against the fuel tax has been launched by the Joint Fuel Tax Committee for the Passenger Road Transport Industry. A specially prepared leaflet, "The Tax on Bus Travel," has been sent to every local authority and every rural and urban district council in the country urging them to support the campaign, which is backed by the four main operator associations, the M.P.T.A., the P.T.A., the P.V.O.A., and the Scottish R.P.T.A.

The leaflet asks councils to pass reso lutions condemning the tax and to send copies of the resolutions to the Chancellor of the Exchequer and Mem-

bers of Parliament.

Ministry of Transport Ignore Steel Muddle

BECAUSE of the anomalous state of transport law, twice the number of heavy road vehicles will be required to move 1,000 tons of long-length steel from Tees-side to Scotland for the construction of the Forth road bridge than would be necessary if they were allowed to load to their normal capacity. Northern Licensing Authority, Mr. J. A. T. Hanlon, was told this at Stockton last week by Mr. M. Hall, transport manager of the Cleveland Bridge and Engineering Co., Ltd.

He was supporting an application by Sunter Bros., Ltd., Northallerton, for additional articulated vehicles with 40-ft, trailers to carry this type of steel.

Mr. Hall said that the piles for the Forth bridge were required to go in pairs to obviate risk of damage, but because of their weight two could not be carried on an articulated vehicle under the Construction and Use Regulations without exceeding the legal limit of 24 tons; and since the recent High Court decision in the Siddle C. Cook appeal, separate pieces could not be considered an abnormal and indivisible load as had been argued previously.

In order to convey the steel lawfully, the builders-a consortium of his own company, Sir William Arroll, Ltd., and Dorman Long (Steel), Ltd.-were having to run the risk of damage and of incurring additional expense, although the vehicles concerned were perfectly capable of carrying two piles safely.

Another anomaly was described during the hearing of a similar application by Siddle C. Cook, Ltd., which tilts the scale

in the reverse direction.

Mr. Cook's vehicles were articulated. with 40-ft. pole trailers, and he explained that when lengths of steel from 60-90 ft. were carried the pole was detached and the trailer portion set back, the load providing the articulation.

The pole was then strapped to the load and trailer to provide stability and steer the trailer. An attendant was provided and the vehicle was then regarded as a tractor and trailer and not as an articulated unit, and could carry 32 tons instead of 24.

Here the anomalous situation arises that 32 tons can be carried in this manner. it is suggested perfectly legally, although it would be carried more safely on an articulated vehicle.

This was one of the matters raised by Mr. T. H. Campbell Wardlaw, when representations were made to the Minister of Transport on behalf of Tees-side heavy hauliers some two months ago, seeking a change in out-dated regulations which are preventing special-type vehicles being loaded to capacity.

Although this is a matter which vitally affects civil engineering, industry, road safety and specialist hauliers, no move has yet been made by the Ministry.

The matter is the more urgent in that although in most traffic areas police and enforcement officers are turning a blind eye to the "illegal" carriage of long lengths of steel where vehicle capacity is adequate, in the Northern area the Licensing Authority's enforcement staff are conducting an all-out war to enforce the regulations, and further summonses are pending both against Siddle C. Cook, Ltd., and Sunter Bros, Ltd. In addition. customers loading vehicles above the present limit are also threatened with prosecution as aiders and abettors.

It is common knowledge that the existing regulations are being broken every day. If they were stringently enforced in every traffic area the country's economy would suffer a severe blow through the slowing down of steel traffic

carried by road.

"Time to Call a Halt," says Mr. Hanlon

"SOMETIME, I suppose, somebody is going to call a halt to this?" said going to call a halt to this," said Mr. J. A. T. Hanlon, when he granted two vehicles to Siddle C. Cook, Ltd., of Consett, County Durham. He was referring to the lengths of loads required to be carried from Tees-side steelworks.

For the applicants, Mr. T. H. Campbell Wardlaw said that the company was granted two vehicles on short-term licence at the beginning of January and they had put in a substantive application for six vehicles.

His clients now wished to modify this number to three vehicles, units of 5 tons each and pole trailers of 6 tons, the normal user being steel and steelwork and other materials in long lengths to and from all parts of Great Britain.

As well as the B.T.C., there were objections from several independent R4

hauliers, but upon an undertaking being given by the applicants that the vehicles, if granted, would not be used on general traffics, the independent operators had withdrawn their opposition.

Mr. S. C. Cook, managing director, dealing with the figures of long-length traffic carried, said that for his principal customers there had been an increase in earnings from £42,217 in the year 1958/59, to £63,796 in the following year. There had been a "tremendous additional demand" upon the facilities at his disposal for long-length traffic, and there was no possibility of meeting this.

He had gone to the extent of inviting all people who came to the Newcastle quayside with long-length vehicles to contact him and he would "fix them up" with return loads of steel. He had contracted to move a new excavator, which was being built, from Glasgow to Grantham. Twenty-one vehicles were required to move it, and if the application were not granted, he could not meet his obligation without working his vehicles on a double shift.

Mr. Cook said that the reason why, in the past few months, his long-length feceipts were down was because, owing to the regulations, each vehicle was carrying less. "Where the vehicles were going out with 20 tons on, they are now only carrying about 14 to 15 tons."

In his decision, Mr. Hanlon said that for reasons of economy, or convenience. or competition, which existed in the steel industry, lengths were getting longer and longer. However, he had no power to say that it should go by rail and he was satisfied that a case had been made out for two vehicles.

FOCUS ON TIPPERS

"The Next week's issue of Commercial Motor" will include several features of special interest to tipper operators, dealing with some aspects of their particular sphere of operation. It will also, of course, contain all the regular features as well as articles of interest non-tipper operators. enlarged issue will still cost, as usual, 1s.

Jack Report Pressure

From our Political Correspondent

OCAL authority associations, Women's Institutes and M.P.s from rural constituencies are combining to put pressure on the Minister of Transport to publish the Jack Report on rural transport well before Budget day, which is expected to be April 11.

The M.P.s. in particular, are anxious

The Covent Garden Battle

FROM OUR POLITICAL CORRESPONDENT

THE battle over the future of Covent Garden Market begins before a Select Committee of the House of Commons next Tuesday. Chief opposition comes from the group of developers and businessmen, led by Central Airports, Ltd., whose petition against the Covent Garden Bill contains a £7m. alternative to the Government's plan to modernize and rebuild the market on approximately the same site, though concentrated in a smaller ground area.

One advantage claimed for the private scheme is that the market, built on stilts over the railway sidings north of King's Cross Station, would keep lorry traffic out of the centre of London, and would have direct road, rail, water and air com-There would be a heliport munications. on the roof.

The promoters of this scheme say that the necessary cash to finance the development has been guaranteed. Thus, instead of requiring an initial Government loan of £8m. with possible borrowings later of up to £20m., as proposed in the Government's Bill, there would be no call

year, and the Bill contains no definite restriction on the movement of vehicles.

From the Boroughs of Finsbury and Shoreditch there is unqualified opposition to the Government's proposal to establish an annexe near the junction of City Road and Old Street where containers and produce would be stored. They complain that at busy times the traffic at this point is already excessive and the lorries using the annexe would bring it to a standstill. They also point to the fire risks and the disturbance the depot will cause to patients in a nearby hospital and to residents.

The market tenants themselves, while agreeing in principle with the Government's plan, have put in a petition asking for various injustices which they see in

the Bill to be put right.

What will be the Government's attitude in face of all these objections? After five years of investigation and argument they are determined to stick to the scheme outlined in their Bill and, while probably making changes to suit the two City Corporations and the tenants, they will refuse to concede the argument of the critics that in this day and age a market fed by hundreds of lorries each day in the centre of London is an anachronism.

What is less predictable, in view of the attitude taken by M.P.s during the second reading debate when hardly anyone had a good word to say of the scheme, is what the members of the Select Com-

mittee will decide.

Some M.P.s doubt whether there will be time to get the Bill through all its stages in both the Commons and the Lords before the summer recess.



Western S.M.T. Co., Ltd., are operating about 20 Leyland Leopard luxury coaches on their regular express services between Glasgow and London. This picture was taken at Victoria Coach Station and shows two of these Alexander-bodied 30-seaters. fleet has covered over 11m. miles and average fuel consumption so far has been 16.89 m.p.g.

to get the report in their hands before the Budget comes along because they want to formulate amendments to the Finance Bill which they believe the report will recommend to help in the provision of transport in areas where branch railway lines are being, or have been. closed. The Chancellor may, of course, forestall them by making the changes that they want in his Budget proposals.

Whether the Jack Committee recommend it or not, M.P.s will be pressing once again for some easement in fuel tax for companies operating uneconomic services to fulfil a social need.

NEW BEN OFFICERS

AT the annual general meeting of the London and Home Counties Centre of BEN, Mr. J. V. Collins was elected chairman with Mr. R. G. Emmett as vice-president for the year 1961. Other elections were Miss G. M. Horner, secretary. Mr. A. G. Petrie, treasurer, and Mr. F. O. W. Smith, hon, auditor. on the Exchequer and market tenants would have less to pay in rentals.

Mechanical handling devices would enable the market to handle 5,000 tons of produce an hour instead of 500 tons as at present, thus giving forries time to get clear of London before the morning traffic rush begins.

The City of London Corporation are objecting to the Government's scheme because they say that a subsidized market would result in business being diverted from their Spitalfields market. Westminster City Corporation take exception to the wide powers that would be given to the proposed Covent Garden Market Authority to control development within their territory, and, more emphatically, they insist that the Bill should be amended to put a statutory limit on the time when vehicles can enter and leave the Covent Garden area.

They point out that the traffic congestion in their area is growing worse every

ABNORMAL LOADS

REGULATIONS are to be tabled in Parliament shortly setting out the new arrangements for obtaining authorization to move abnormally large loads by road. They were first circulated to haulage and industrial interests in draft form in August last year, and the long delay probably means that hauliers will find the regulations more to their liking. than when first circulated, writes our Political Correspondent.

The plan then was to give the Minister complete control over the movement of loads over 80 feet long and between 14 and 20 feet wide, and to allow the police to authorize the movement of loads between 40 feet and 80 feet long, specifying the route and times of movement.

Most vehicles of over 40-ft, length will have to carry additional lights visible from front and rear. Additional lights and other markings will have to be carried by vehicles carrying projecting loads and by mobile cranes.

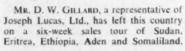
Men in the News



Mr. A. E. Line



Mr. C. W. Voysey



MR. M. LIPMAN has been appointed home sales manager for Engineering Co., Ltd. He was formerly Southern area representative for Merton Loading Shovels,

Mr. S. W. HASTELOW, technical sales manager of Telamite, Ltd., has been appointed sales manager (North) of the company. Mr. L. G. Watson has been appointed sales manager (South).

MR. LESLIE W. WEST, commercial director of Kismet, Ltd., left for America on Tuesday, where he is to visit the 1961 International Automotive Service Industry Show in Los Angeles before going on to Chicago and New York.

MR. B. A. THOMPSON is to become transport executive with Cory Wharves, Ltd., 130/138 Minories, London, E.C.3, with effect from March 1. At present Mr. Thompson is transport manager of Whitbread and Co., Ltd. He will be succeeded in this post by MR. A. H. RICHES.

MR. D. W. GRAY and MR. R. R. WATKINS have been appointed works director and sales director, respectively, of Chamberlain Industries, Ltd.

MR. E. P. RAY retired last Tuesday from the position of wholesale trade representative of The Car Mart, Ltd., Austin distributors for London and Essex.

MR. C. V. (TOM) WALKERLEY has been appointed commercial-vehicle press officer for the Rootes Group. Prior to taking up this appointment he was on the editorial staff of The Commercial Motor.

MR. C. HOLMES-WALKER, branch manager at Chester and divisional manager, Merseyside, of The Power Petroleum Co., Ltd., has been appointed Eastern divisional manager in succession to Mr. H. R. C. RIDES, who retired last

MR. R. G. BENNETT has been appointed export manager of A.E.C., Ltd., in which capacity he will be directly responsible to Mr. J. U. Cooke, export director. Mr. Bennett has been European zone manager since March, 1959, a position which will be filled by MR. RODNEY HOLLANDS, who has been area manager at Newcastle.



Mr. M. Lipman



Mr. B. A. Thompson

MR. P. D. FAIRLIE is to be installed as President of the Institute of Public Cleansing for 1961-62 at the 63rd I.P.C. annual conference at Aberdeen from June 6 to 9. Mr. Fairlie has been Director of Cleansing for Glasgow for the past 10 years, having previously served as Deputy Director and earlier as chief inspector.

MR. C. W. Voysey and MR. A. E. LINE have been appointed to the board of Carrimore Six Wheelers, Ltd., as sales director and technical director respectively. Mr. H. T. BOVILL has been appointed to the board of the Steel Barrel Co., Ltd., as commercial director. MR. F. Brent has been promoted to Northern Area Manager on behalf of Carrimore Six Wheelers, Ltd., and will be assisted by MR. F. E. TUKE in Yorkshire, and MR. R. KNILL in Lancashire.

Forthcoming Events

March 3.—The Transport Goifing Society Annual Dinner and Dance, Majestic Hotel, Harrogate, March 5-14.—Leipzig Spring Fair, March 7.—Motor and Cycle Trades Benevolent Fund, Annual General Meeting, Connaught Rooms, London.

March 13.—R.H.A. Met, and South Eastern Area Banquet and Ball, Grosvenor House, Park Lane.

Lanc.

March 13.—Institute of Transport, London: "Mass
Transportation," by L. C. Hawkins, L.T.E.

March 16-26.—Geneya Motor Show.

March 24.—Institute of Transport Annual Dinner,
Dorchester Hotel.

April 8.—National Coach Rally, Wigan to
Blacknown

Blackpool.

April 18-21.—Scottish R.P.T.A. Conference, Turn-

berry.

April 22-23.—British Coach Raily, Brighton.

May 11-17.—International Union of Public Transport

Property Congress, Copenhagen.

May 16-18. Public Transport Association Annual

Conference, Eastbourne.

May 23-25.—National Association of Furniture

Warchousemen and Removers Annual Conference, Turnberry, Ayrshire.

May 29-June 7 (provisional).—Institute of Transport

visit to Belgium.

B6

June 5-9.—Institute of Public Cicansing Annual Conference, Aberdeen.

June 12-15.—Vehicle Builders' and Repairers' Association Annual General Meeting and Conference, Rothesay, Isle of Bute.

June 15-24.—Construction Equipment Exhibition, Crystal Palace, London, S.E.19.

September 17.—Lorry Driver of the Year Contest, National Final, Fort Dunlop.

September 21-October 1.—Frankfurt Motor Show.

October 5-15.—Paris Motor Show. (Cars only.)

October 17-18.—Road Haulage Association Conference, Brighton. ference, Brighton.

October 18-28. Earls Court Motor Show.

October 19-28.—Earls Court Motor Show.
October 28.—November 8.—Turin Motor Show.
October 31.—British Electrical and Allied Manufacturers' Association Dinner, Grosvenor
House, Park Lane, London.
November 10-18.—Scottish Show, Kelvin
Glasgow.
November 13-16.—National Maintenance
Greence and Exhibition, Central
Westminster

ference and Westminster.

May 29-June 1.—Institute of Transport Congress, Cardiff.

Obituary

WE record with deep regret the deaths of Mr. James Inving and Mr. HARRY RYDER HILL.

Mr. Irving, a director of County Motors (Carlisle), Ltd., was 70. He had been with the company since 1947.

Mr. Hill was deputy general manager of Hull Corporation transport for the past eight years. He was 60.

Bus Pay: Unions to Make New Approach

BY OUR INDUSTRIAL CORRESPONDENT

SERIOUS trouble, with the possibility even of another strike, threatens provincial bus services this summer. This became clear when delegates of seven unions representing 170,000 employees of municipal and privately owned bus undertakings met in London on Tuesday to discuss the next moves in their claims for more pay and improved conditions. As forecast in The Commercial Motor last week there was pressure from a number of the more

militant delegates for a tougher line with the employers. One proposal put forward at the all-day talks was for a series of token strikes on Saturdays in one region of the country after another.

But wise counsel prevailed and no threats are being issued at this time. Instead, it was decided to make new approaches to the employers and to give them what one union leader called " a

last chance.

The National Joint Industrial Council which deals with 70,000 municipal busmen is calling another meeting of the Wages Committee next Thursday. At this meeting new pressure will be brought by the union representatives to get a settlement.

"No Precipitate Action"

The National Council for the Omnibus Industry which deals with 100,000 men and women in privately owned and B.T.C. undertakings are to have a further meeting with the employers, but if no satisfactory negotiation comes from such a meeting the union representatives are instructed to ask the Minister of Labour, Mr. John Hare, to intervene.

In the meantime, the unions have circularized their members "not to take any precipitate action and to restrain themselves until the negotiating procedure

has been exhausted."

Another issue mentioned at Tuesday's meeting was the plan for a committee of investigation into provincial busmen's pay and conditions. The unions had written to both sets of employers' organizations asking them to join them in a request to the Minister of Labour to set up such an inquiry. The meeting was told that both groups of employers had rejected the proposal.

TWO VEHICLES SUSPENDED

MUIRS TRANSPORT, LTD., of Cupar, the haulage concern that was acquired by Transport (Bristol), Ltd., in July last year, have had two of their vehicles suspended for two months as the result of an inquiry in Cupar last Friday when it was stated that vehicles had been operated outside their normal user.

A director of Transport (Bristol), Ltd., said that other vehicles in the fleet had operated regularly within the permitted 25-mile radius although they were authorized to do long-distance work. The position could have been regularized by making the appropriate variations of

the licences.

An application by Muirs Transport for two vehicles on A licence for maintenance replacement was refused.

Eastern National Lose Appeal

THE Minister of Transport has turned I down the appeal by the Eastern National Omnibus Co., Ltd., against the decisions of the Eastern Traffic Commissioners refusing applications by Eastern National to run additional tours to Scotland and granting P. and M. Coach Line. Ltd., a picking-up point at Colchester on existing tours to Scotland.

It was stated that the number of passengers wishing to take extended tours to Scotland from the Colchester area did not justify the grant of licences to two operators. The case for a grant to P. and M. was clearly made out.

NEW ROADS FOR LONDON

A N exhibition called "New Roads for London," designed to encourage the recruitment of staff which will be required now that the London roads programme is to be expanded to £10m. a year, was opened at County Hall, Westminster, yesterday.

Models, maps, photographs and drawings illustrate numerous schemes in development or planned for the future.

Big Demand for Storage

NCREASING demands for storage and warehousing facilities resulted in a Stoke-on-Trent haulage company being granted two extra B vehicles at Hanley on Tuesday. Longton Storage and Warehousing, Ltd., applied for two vans to carry general goods into and out of their warehouses within a 75-mile radius. In addition to being hauliers, the applicants owned several warehouses where they assembled orders, broke down bulk loads and stored branded commodities.

Evidence was given by four customers who all spoke of extra business which they wished to give Longton if they were granted more facilities. The application

was unopposed.

When making the grant, the West Midland Licensing Authority, Mr. W. P. James, said that no evidence had been given of inward general traffic to Longton warehouses, so he altered the conditions, permitting the two vehicles to deliver general goods from the warehouses within 75 miles, but only carrying empty containers and rejects on return inward

HEAVY HANDLING

ONE of the many speakers at the conference of the Institute of Materials Handling at Southport from May 10-12 will be Mr. J. N. Drummond, chief heavy haulage manager, Pickfords, Ltd., whose subject will be: "Transport and Distribution in Heavy Industries.'

FULL TIME AT VAUXHALL

FULL five-day-week working was resumed in all departments of Vauxhall Motors factory at Luton today.

Turbocharger Overhaul by Operators

GIVEN that the maker's instructions are closely followed, it is now accepted that a typical operator of a turbocharged engine is qualified to dismantle the turbocharger, to fit new bearings and so on and to reassemble the unit in his workshop. Although balancing the rotor assembly should be performed by the manufacturer, rebalancing during overhaul is not normally necessary.

This advice was given by Mr. R. Tytler, Simms Motor Units, Ltd., turbocharger department, when he read a "Turbocharging High Speed Diesel Engines" at a meeting of the Institute of Road Transport Engineers, Midland Centre, in Birmingham on Tuesday. Mr. Tytler emphasized that recent improvements in design had enabled operator maintenance" to be generally approved, despite the fact that the rotor had to be balanced with extreme accuracy.

On average, said Mr. Tytler, a turbocharger operated for about 3,000 hours or approximately 100,000 miles before an overhaul was required. Examples were known of a turbocharger running 5,000 hours without overhaul

Commenting on the value of an inter-

cooler, Mr. Tytler pointed out that the air-to-air type was the obvious choice for automotive applications. A vehicle engine was, however, running in this country equipped with an air-water heat exchanger for which the engine jacket water was used and in America the Caterpillar Company had developed a road vehicle engine fitted with a similar type of intercooler. In this case turbocharging gave a 50 per cent, increase in output and raised the b.m.e.p. to 151 p.s.i.

According to American opinion, the use of a turbocharger reduced the life of the engine between overhauls on a time basis, but the b.h.p./hour figure was increased. Accurately observed tests in this country had shown that an improvement in fuel consumption of at least five per cent, was normally provided by

turbocharging.

Citing the case of a naturally aspirated 200 b.h.p. engine, Mr. Tytler estimated that the unit would weigh 12 lb. per b.h.p. and would cost £5 per b.h.p. Equipping the engine with a turbocharger would raise its output to 270 b.h.p. and the cost per h.h.p. of the engine would be reduced to £4. The turbocharger would cos: £70 to £80.



H. Pye and Sons, Ltd., operate this Atkinson-York articulated van, one of eight supplied recently by the Nightingale Engineering Co., Ltd., London, S.W.12. The vehicle, seen in the livery of the Shell Chemical Co., Ltd., has a Gardner 6 LX oil engine, and automatic chassis lubrication. The interior of the Freightmaster semi-trailer is specially lined for this Shell application.

Exhaust Fumes

By Our Parliamentary Correspondent

THE Minister of Transport is keeping a close eye on the way California is tackling the problem of exhaust fumesbut he thinks it will be some time before the American State finds the complete

The Californian scheme was mentioned in the Commons last week by Dr. Alan Thompson, the Labour Member for Dunfermline, who had sent details to the Minister. Pointing out that the State Legislature was making it compulsory for all private and commercial motor vehicles to carry an anti-exhaust device, Dr. Thompson asked if similar legislation would be introduced here.

This legislation did not become effective until at least two suitable devices had been approved and were on sale, replied Mr. Marples. He was keeping in close touch with the position, but so far as he knew no device had yet been approved or was likely to be approved in the near future.

[Extracts from a paper on measuring exhaust smoke appear on Page 75.]

TOKEN STRIKE OFF

DRIVERS and conductors employed by Tynemouth and District Transport Co., Ltd., have rescinded their decision to hold an unofficial token strike every Saturday in a campaign to obtain higher wages, but they have asked their union to support a one-day token strike once

THERMO-KING PRICE CUT

SUBSTANTIAL price reductions for their Thermo-King vehicle-refrigerating plants have been announced by Petters, Ltd. These are a direct result of increased production at the Hamble factory, where these units are manufactured under licence from the Thermo-King Corporation of America.

HIGHER AND HIGHER

From the latest Industrial Trends Inquiry of the Federation of British Industries:

The combination of higher hourly wages and the rising price of some materials and fuels, coupled with a steadier level of output, has led to the biggest rise in costs per unit which has been recorded since the inquiries began three years ago.'

STAFFORDSHIRE SERVICE AREA

THE Minister of Transport announces that he is now prepared to consider proposals for the development of a service area at Keele, near Newcastleunder-Lyme, on the Staffordshire section of the Birmingham-Preston Motorway.

Applications may now be made for the exclusive rights to construct and operate petrol-filling stations and catering premises within the service area on a 50-year ground lease. A transport cafe must be built on each side of the motorway and at least a cafeteria on one side or the other.

Thames Model WITH the exception of the passenger

Laminaire Option for

chassis, all Thames Trader models and Thames 14- to 4-ton semi-forwardcontrol vehicles are now available with Laminaire progressive steel springs as optional equipment. This development is the result of work carried out by Ford's in conjunction with the makers of the Laminaire type of spring, William E. Carey, Ltd., Manchester.

Because of the progressive action given by the Laminaire design, this type of suspension gives good ride characteristics when the vehicle is unladen, with subsequent benefit in respect of body, cab and chassis life.

More "Clearways" Planned

A NETWORK of new "clearways" in London where no vehicles will be allowed to stop in peak traffic hours. except for the dropping of passengers, is now being planned by the Ministry of Transport traffic management unit. Fifty miles of roads have been marked down for eventual classification, writes our Political Correspondent.

Mr. Marples is taking advice about the rules to be applied for the loading and unloading of vehicles. Off-street loading bays are the obvious answer, but on the highly valued land of Central London they are not "practical politics." extension of time restrictions on loading and unloading seems inevitable.

Tank Vehicle Marking

PROGRESS had been made in drawing up a scheme for marking tank vehicles carrying dangerous substances in bulk, said Mr. R. A. Butler, the Home Secretary, in the Commons last week. He added that it was not vet possible to say when the scheme would be published.

Mr. Frank Allaun (Labour, Salford East) asked if the regulations would include additional safeguards against leaking containers, but was told they would not, as the Construction and Use Regulations included provisions about the safe construction and loading of

A New Russian Goods Vehicle

RUSSIA'S most-operated goods vehicle, the PAZ-51, is to be replaced by a model with the designation of PAZ-52. The PAZ-52 will, like its forerunner, be manufactured at the Gorki works in the Soviet Union. With the same loading capacity as the PAZ-51-21 metric tons-it has a higher speed range and a fuel consumption figure 10 to 12 per cent, better than that of the former model.

At the Lichachov vehicle works in Moscow, the ZIL-62 goods vehicle is to be removed from production schedules and replaced by the ZIL-130, a 4-metrictonner powered by a 148 b.h.p. engine and equipped with synchromesh gearbox and hydraulically assisted steering.

A number of new commercial vehicle models are also reported from Poland. Among new types are the Star 200, a 5-metric-tonner with 125 b.h.p. engine, stated to be Poland's "goods vehicle of the future"; the Star 27, a 4-metric-ton vehicle with 100 b.h.p. engine soon to come into production at the Starachowice works; a 1½-metric-ton 70 b.h.p. vehicle and a 1.7-metric-ton van, prototypes of both of which have been built at Lublin; and a new 8-metric tonner with 180 b.h.p. engine and five-speed gearbox, to be known as the "A-80."

New Vehicles Granted for Hired Fleet

10 vehicles to be hired, to replace their present B.M.C. 34-ton vans, four of which were on B licence and six on A.

The latter vehicles had 1,500-cu.-ft. bodies, he said, which were identical to the bodies being fitted to the new vehicles, but with the Guy chassis it was hoped to fit the bodies 31 in. lower. A two-speed axle and automatic lubrication were being incorporated to aid motorway travel and case maintenance. The vehicles were being built by the hirers, T. Rowbotham and Sons, Ltd., Chapel-en-le-Frith.

Mr. G. H. Minshall, managing director of T. W. Nobles and Sons (Manchester), Ltd., Ashton, objecting, expressed concern that the new vehicles had a capacity of 7 tons instead of the former 5 tons of the B.M.C. vans. Mr. Hadfield replied that he dealt with the capacity not weight, and said it was not their desire to carry loads of over 5 tons.

The Licensing Authority, Mr. F. Williamson, granting the application, commented on the exceptional practice of hiring a fleet instead of owning it. He read to the court the section of the Act listing the penalties of breaking undertakings made during the case.

"Serious Mistake" Admitted

WHEN Thornbury Transport, Ltd., of The Old Mill, Thornbury, Glos. applied to the Western Licensing Authority at Bristol for a licence to substitute one truck in place of a flat vehicle, Mr. T. D. Corpe, for the applicant, referred to two vehicles which had been operated irregularly by them for periods of ten months and two months respectively.

These vehicles, he said, were in fact operated under an A licence held by another undertaking. His clients had made a serious mistake inasmuch as the vehicles did not at the material time belong to the other concern.

The Licensing Authority, Mr. S. W. Nelson: " It seems strange to me that this sort of thing should be tacked on to a perfectly ordinary application. I should have thought it was a matter for a disciplinary inquiry."

Mr. Raymond Tyrrell, a director of Thornbury Transport, explained that he bought one of the vehicles and afterwards offered it to another concern, but as the latter never paid for it the vehicle was returned and Thornbury Transport continued to use it although the licence was in the name of the other concern. The second vehicle had been sold.

Granting the application, Mr. Nelson said Thornbury Transport had an excellent reputation and he was sure there was no intention to break the regulations.

BY putting a 1,500-cu.-ft. van body on a Guy 7-ton Warrior chassis, J. H. Hadfield and Sons, Ltd., Ashton-under-Lyne, hoped to meet the demands of modern fast removal services, Mr. G. Hadfield, managing director of the company, told the North Western Licensing Authority last week. Hadfields were applying for

Bedford Export Record

DURING January, 5,113 Bedford goods and passenger chassis were shipped overseas, a record figure which beats the previous best (achieved in November, 1960) by 15 per cent. This is the first time that more than 5,000 Bedford chassis have been exported during a single month, and the vehicles were sent to over 100 countries, the biggest importers being Argentina, Australia, Belgium, Denmark, Finland, Ghana, India, Pakistan and Zealand.

Tribunal Reverse L.A.'s Decision

THE Transport Tribunal last week reversed the decision of the Northern Licensing Authority refusing an application by Tyneside Haulage, Ltd., to add to their A licence three tractors weighing 94 tons in place of three other tractors weighing 7 tons 7 cwt. They had also asked that the variation should include the normal user "Carriage of goods for a Darlington engineering company and a chemical company there," and that their base be described as Darlington instead of Newcastle.

Mr. I. Robey, for the appellants, said there would be no change whatever in the carriage capacity. The old tractors were beyond economic repair and it was highly necessary that they should be replaced.

Dealing with the change of base he said that the entire share capital of Tyneside Haulage had been acquired by



Mercedes-Benz goods vehicles for sale on the British market are starting to arrive in this country. Here are three 372 models after unloading at Dover where they arrived from Ostend in the Belgian vessel Ijzer.

New Name-New Home

WITH the merger of certain Lancashire W and West of Scotland interests, Dalzell Electrical Welding Co., Ltd., Bellshill, will be renamed Holmes Alexander, Ltd., and will completely transfer production to a new site on the Heathhall Industrial Estate, near Dumfries.

A large aircraft hangar is being adapted provide a factory floor space of 48,000 sq. ft., three times the area of the existing Bellshill plant. They will continue to concentrate on the production of a range of lightweight steel and alloy bulk transporters for road vehicles, as well as trailer production and general engineering.

A new development likely is the manufacture of tipping bodies.

I.T.A. BRANCH MEETING

THE next meeting of the Devon and Cornwall Centre of the Institute of Traffic Administration will be held at the South Western Gas Board demonstration theatre, Plymouth, on February 22, when an address will be given by Mr. A. W. Kirkwood, public relations officer of Plymouth City Transport.

the shareholders in another transport company, Mr. and Mrs. Metcalfe, of Metcalfe (Transport), Ltd., Darlington. Before the acquisition of the shares the registered office of the company had been at Newcastle, but for the convenience of administration it was decided to transfer it to Darlington.

The Tribunal president, Sir Hubert Hull, said that no change was being sought in the weight of the trailers to be drawn by the tractors and therefore no change was sought in their actual carrying capacity.

The Tribunal did not think that the new normal user enabled the company to carry anything different from the goods that they were already allowed to carry.

WINDING-UP

A N order for the compulsory winding-up of David and Doyle (Hauliers), Ltd., whose registered office is at Berkeley Street, London, W, was made by Mr. Justice Buckley, in the Chancery Division, on Monday, on the petition of Jones Brothers, motor engineers, of Henblas Bala, Merioneth, judgment creditors for £199. There were no notices of opposition or support.

Experimental Steering On Colchester Bus

ONE of three Leyland Titan PD2.31 double-deck buses delivered to Colchester Corporation has been equipped with Adamant power-assisted steering. This is the first time this equipment has been fitted to a Leyland chassis of this type, and it is hoped that the installation will enable both the manufacturers and the operators to assess its characteristics under service conditions.

Power for the hydraulic system is supplied by a Hobourn-Eaton pump driven from the rear of the generator. standard steering box is retained and has the hydraulic valve gear mounted above it, the additional bulk of the steering box having necessitated moving the brake pedal slightly to the right.

The power ram is mounted transversely

ahead of the front-axle beam, there being insufficient space for the ram to be carried in the more usual longitudinal position. The piston-rod is attached to forward extension of the off-side steering arm, and the ram body is mounted on the axle beneath the nearside spring pad.

Another non-standard feature of the Titan is that all the aluminium components normally employed in the cooling system have been engine's replaced by cast-iron units. This is because Colchester's water has an unusually heavy corrosive action on aluminium.

All the vehicles have Leyland 0.600 125-b.h.p oil engines and 61-seat bodies built by Massey Bros. (Pemberton), Ltd.



Adamant servo has been fitted to the steering of a Leyland Titan delivered to chester Corporation. The power ram is carried transversely across the front Colchester Corporation. of the axle.

Municipal Opportunities

Cardiff Corporation Waterworks Committee have

Cardiff Corporation Waterworks Committee have authorized the purchase of a Land Rover.

Newcastle upon Tyne Council ask for two Ceyland Octopus bulk load carrying vehicles, approx. 41 cu. yd. capacity.

Cheltenbam Corporation Water Committee are to purchase a new Bedford 15-cwt, van at a price of £460, to replace an old vehicle.

Gravesend Council want one diesel 3-ton tipper and two petrol-engined 5-cwt, vans, and offer the old vehicles replaced in part-exchange.

Hereford Council ask for refuse freighter(s), minimum capacity 18 cu, yd. compressor type-complete—painted, lettered, etc., as specified.

Geddford Corporation Works Committee have authorized the purchase of a new Dennis dual-tip refuse collector, at a cost of £3,135; and a 5-cwt. van at a cost of £360.

Leeds City Council are recommended to accept the tender of Tate of Leeds, Ltd., amounting to £1,633, for the supply of a Ford Thames 2-3-ton oil-engined tipping wagon.

Seaham District Council, Durham, have accepted the tender of The Northern Autoport, Ltd., Sunderland, amounting to £1,262, for the supply of a Commer Superpoise 5-ton hydranlic truck.

Clare, Suffolk, R.D.C. ask for a petrol-engined refuse collector—all-steel body, Karrier Gamecock chassis, 12 cu, yd. capacity, single cab, fitted with four section covers, painted, lettered, etc., complete as specified.

Kensington Borough Council Works Committee have recommended acceptance of the tender of Simon Engineering (Midlands). Ltd., for the supply of a Rootes Karrier chassis, at a cost of £2,611; and the quotation of Rootes, Ltd., for the supply of two Karrier Bantam, petrol driven tractors, at a cost of £390 each, for use in connection with refuse collection.

Northampton Corporation Highways and Cleansing

Northampton Corporation Highways and Cleansing Committee have recommended that an order be placed for the supply of two new Karrier Blenheim 22-30-cu.-yd. capacity refuse collectors at a cost of approximately 82,950 cach.

Lames C.T. ask for, inter alia, four Yorkshire trailer gully emptiers, 800 gal. capacity; one Johnston sweeper-collector; 12 Ferguson FE35 tractors and equipment; seven trailers for Ferguson tractors; one Lolode 3-ton trailer.

Wallassey Corporation have authorized the placing of orders with Shelvoke and Drury, Ltd., for the supply of two T.W.-type freighter vehicles fitted with oil engines and fore and aft tipping bodies, required for the Cleansing Section of the Works Committee, at a cost of £3,396 each.

Reading Corporation Transport Committee have recommended acceptance of the tenders of Dennis Brothers, Ltd., Guildford, for the supply of eight Loline omnibus chassis, at a cost of £3,643 is, 8d, each; and of East Lansahire Coach Builders, Ltd., Blackburn, for the construction of large-capacity doubleders but bodies at a cost of £3,643 is, 8d, each; and of East Lansahire Coach Builders, Ltd., Blackburn, for the construction of large-capacity doubleders but bedies at a cost of £3.50 cm.

each; and of East Lancashire Coach Builders, Ltd., Blackburn, for the construction of large-capacity double-deck bus bodies at a cost of £3.453 each.

Salford City Council Transport Committee have accepted the quotations of Shelvoke and Drewry.

Ltd., for the supply of three refuse collectors at a cost of £6.413 5s.; Fodens, Ltd., for a tipping wagon at £4.499 5s.; and E. Boydell and Co., Ltd., for the supply of an hydraulic loader at £1,975. They have also recommended the acceptance of the tenders of A.E.C. (Sales), Ltd., for the supply and delivery of 10 bus chassis with engines and one spare engine at a cost of £22,083 9s.; of Transport Vehicles (Daimier), Ltd., for 18 bus chassis with engines and spare units at £107.987 15s.; of Leyland Motors, Ltd., for two bus chassis with engines at £6,135 6s. 4d., and of Metropolitanies at £6,135 6s. 4d., and of Metr

Orders and Deliveries

REIVER QUINTET: J. and A. Smith of Maddiston, Ltd., Falkirk, have placed an order for five Albion Reiver chassis with Leyland 125-b.h.p. oil engines and double-drive bogies.

BORDER REIVERS: Robsons Border Transport, Ltd., Carlisle, have ordered five Ablion Reiver haulage chassis with Leyland 400-S 125-b.h.p. oil engines and single-drive

SALFORD SINGLE-DECKERS: Ten A.E.C. Reliance single-deckers have been ordered by Salford Transport Department. They will have AHU470 horizontal oil engines and Metropolitan-Cammell-Weymann bodies.

REDIRECTED CUBS: Three Leyland Tiger Cub PSUC 1.3 single-deckers, originally built for export and at present being modified to meet British regulations, have been bought by Jones' Omnibus Services. Ltd., Aberbeeg, Mon. They have Weymann 44-seat bodies.

YORKSHIRE AND WARWICKSHIRE CUBS: Yorkshire Traction Co., Ltd., have ordered six Leyland Tiger Cub coaches and Stratford-upon-Avon Blue Motors, Ltd., have ordered another five Tiger Cub buses.

COOPER'S SIX: George Cooper and Sons of Shafton, Barnsley, have ordered one A.E.C. Mammoth Major eight-wheeler and five A.E.C. Mercury tractive units. The eight-wheeler will be fitted with a 4,000-gal. tank. This company claims to have operated the first pneumatic-tyred A.E.C. in the Yorkshire area—this was in the 1920's.

LEOPARDS IN DEMAND: Five Leyland Leopard buses and two Leopard coaches have been ordered by East Midland Motor Services, Ltd., and East Yorkshire Motor Services, Ltd. have ordered seven coaches of the same type.

SOUTHDOWN ORDER EIGHTY: An order valued at over £230,000 has been placed with Leyland Motors, Ltd., by Southdown Motor Services, Ltd. It is for 40 Titan PD3.5 double-deckers with Pneumo-Cyclic Company of the PD3.5 double-deckers wi rb3.5 double-deckers with Phelium-Cyclic semi-automatic gearboxes and air brakes; 20 Leopard L2 coaches; 10 Tiger Cub PSUC1.1 single-deck buses; and 10 Tiger Cub PSUC1.2 coaches,

600 LEYLAND ENGINES ORDERED: Repeat orders for more than 600 automotive and industrial oil engines were placed with the industrial units division of Leyland Motors, Ltd., during January. 1961. These orders have come from both home and overseas concerns.

TITANS FOR YORKSHIRE FLEETS: Yorkshire Traction Co., Ltd., have ordered 12 Leyland Titan PD3.1 double-deckers, and Yorkshire Woollen District Transport Co., Ltd., have ordered nine of the same model. REGENTS FOR WALSALL: 10 A.E.C. Regent Mk. V double-deck chassis with AV590 125-b.h.p. oil engines have been ordered by Walsall Transport Department. Five will have Metropolitan-Cammell-Weymann bodies and the others will have Willowbrook bodywork.

will have Willowbrook bodywork.

1961 ATLANTEAN ORDERS: So far this year Leyland Motors, Ltd., have received orders for 116 Atlantean rear-engined double-deckers. Many of these are repeat orders such as 35 for Northern General Transport, 16 for Western Welsh Omnibus Co., Ltd., 15 for Maidstone and District Motor Services, Ltd., 14 for East Midland Motor Services, Ltd., 11 for Gateshead and District Omnibus Co., Ltd., eight for Sunderland District Omnibus Co., Ltd., 13 for Tynemouth and District Transport, and two each for Waskfield Motors, Ltd., J. James and Sons, Ltd. and Sons, Ltd.

Workers' Bus Granted

AT Glasgow last week, Mr. William Miller, Calderbank, applied successfully to inaugurate an express service between Airdrie Cross and The British Olivetti, Ltd., factory in Queenslie Industrial Estate, Glasgow.

Witnesses said that the firm allowed 60 minutes lateness per month, followed by suspension and then dismissal. The special bus delivered employees within one minute of the time clock, the stage services on the main road being at a considerable distance. Timekeeping, they said, had been 100% during the operation of the Miller bus.

A representative of Scottish Omnibuses claimed that abstraction would result, since they were the licensed operators on the route. But Mr. J. Law, for Miller, denied any possibility of abstraction since Scottish Omnibuses had not carried this business for four years.

Granting the application, Mr. Quin said that the public interest was confined to the needs of the work-people carried.

TO BOOST EXPORTS

A NEW company, Molyslip World Distribution, Ltd., has been formed by the Slip Group of Companies to deal with overseas markets and to extend the sales of their range of products containing molybdenum disulphide.

Mr. G. McC. Corbett, managing director of the Woodgate Investment Trust. Ltd., the City investment and property company, has joined the board of the newly-formed company.

New Transformer-Oil Tankers

TWO new transformer-oil tankers will shortly be going into service with the Mobil Oil Co., Ltd. They are articulated vehicles with Leyland Super Comet tractive units. The semi-trailers have Cranes running gear with air suspension, and tanks constructed by Yorkshire Engineering and Welding Co., Ltd. Stainless-steel plate has been used for the elliptical-section tanks to eliminate corrosion.

Each tank holds 2,500 gal., accommodated in three 500-gal. compartments and one 1,000-gal. compartment, all of which are fitted with silica-gel breathing equipment and conservator tanks. The

silica-gel equipment, which is housed in the meter cabinet, prevents contamination of the transformer oil by removing the possibility of damp air being drawn into the compartments.

The conservator tanks housed on top of the main tank, each have a capacity of 16 gal, and ensure accurate filling of the compartments. Bottom loading is employed, and the outlet-pipe system is designed so that, by means of Exactor self-sealing couplings and flexible hoses, delivery to customers is carried out through a Drum cargo pump on the tractive unit. Delivery is measured by a Wayne flow meter.



One of two transformer-oil tankers, with Cranes air suspension on the semi-trailers, about to go into service with the Mobil Oil Co., Ltd.

Measuring the Density of Exhaust Smoke

ALTHOUGH existing smokemeters may not be considered ideal for measuring the density of exhaust smoke emitted by all types of oil-engined vehicle, they can be satisfactorily utilized providing certain limitations are accepted and certain precautions taken. This conclusion was reached by Mr. J. D. Savage, diesel engineer, technical services, market department, British Petroleum Co., Ltd., in a paper read to the Institute of Road Transport Engineers in London yesterday.

Mr. Savage's paper dealt with the different types of test which could be used for the measurement of smoke emission, including methods applicable to dynamometer test beds and normal operation on the road. The two types of instrument at present in greatest use were the filter-paper disc and the light-absorption meter, but both of these had their short-romings.

Limitations of existing instruments, said the author, were related to the difficulties of correlating results from different instruments; the smokemeter's inability to give readings corrected for engine size or volume of exhaust gas; the need to conduct test procedures with extreme care to avoid incorrect readings caused by accumulated smoke, condensa-

tion, low sampling pressure and so forth; and the fact that meters do not examine the full-flow characteristics of exhaust gases as seen by the human eye.

It was felt that, in addition to improving the existing sampling systems to reduce these limitations, the future development of smokemeters for vehicle work might take into consideration the possibility of a full-flow photo-electric light-absorption meter. Reasonable correlation ought to be possible by employing an iris-type shutter to correct the light-absorption reading according to the size of the exhaust pipe or the capacity of the engine.

Evaluation Difficult

Mr. Savage said that, although visual assessments of smoke density were useful as a guide to the quality of combustion, evaluation proved difficult and in consequence instruments had emerged to assist in development work. Thus, most instruments now starting to be used for assessments on the road had been developed virtually as laboratory equipment. Light-absorption meters, as originally developed for dust measurement, were proving popular, although filter-paper methods had survived competition

so far. Both meters were reliable and effective for recording relative densities but suffered reduced sensitivity at high smoke density. Concerning test procedures, measurement with the vehicle stationary had been shown to underestimate the smoke density when compared with readings taken with the vehicle either accelerating, ascending a gradient, or being driven against the handbrake, under full-throttle conditions in all cases.

Official smoke-density testing was dealt with in some detail by the author, who felt that, if the filter-paper technique were adopted it would be likely that a single test would be made in the case of each vehicle, but that a light-absorption meter would be attractive because it afforded a simple and rapid method of test. Smoke-density limits might be difficult to define, thought Mr. Savage.

A general correlation of results from different types of smokemeter would not be possible unless wider limits were tolerated, and for official purposes, where a "pass" or "fail" system was required three subdivisions—" Invisible," "Visible but Acceptable" and "Unacceptable"—might suffice.

Air-Sprung Leopards for Ribble

TWENTY Leopard coach chassis with leaf-air suspension at front and rear are at present in production at Leyland Ltd. They have been ordered by Ribble Motor Services, Ltd., and are being equipped with 32-seat luxury coach bodies by Thomas Harrington, Ltd., Hove, Sussex.

The front- and rear-suspension layouts are similar to those of the Leyland Worldmaster exhibited at the Brussels Motor Show last month. Two doubleconvolution bellows are employed at the front axle, with four similar units at the rear axle, additional volume for the rear springs being provided by twin tanks slung from beneath the rear frame extension. There are two surge tanks for the front springs also, these being located beneath the driver's platform.

Two levelling valves are used at the rear, with a single valve at the front and, as is usual with this type of installation. the leaf springs have a considerably lower rate than those units fitted when auxiliary air springs are not incorporated.



Two Dunlop Pneuride air springs are used in conjunction with light leaf springs to form the front suspension of Ribble's new Four bellows are used at the rear, with telescopic dampers at both ends.

Carving Out a New Career

THE ambition of a carpenter to run an express coach service from Bristol to Salonika for Greeks going on holiday, took a step nearer realization in London last week.

Mr. C. J. Macdonald, the Metropolitan Deputy Traffic Commissioner, granted backing to a primary licence for Thomas Easton Neilson, of The Old Rectory. Binegar, near Bath, enabling him to stop at Guildford, Surrey, for lunch but not to pick up or set down passengers there.

Mr. Neilson, whose wife is Greek, said he was going to give up being a carpenter and joiner to run this service for Greeks with whom he had good connections. There was a large Greek community in most major towns and cities in Britain. he said. Most of them could not afford air travel home but they would welcome his coach service.

The cost would be £60, covering accommodation and transport on the outward and return journeys (eight days each way). He would operate the service from May to September.

The proposed route was from Bristol to Dover and then through France. Switzerland, Italy, Yugoslavia and on to Greece. As soon as he had the necessary licences he would buy a 41-seat coach and employ a driver to assist him.

His primary licence had already been granted and his application for backing to travel via Hungerford, Reading, Maidstone and Dover had yet to be heard.

Compulsory Passenger Insurance? BY OUR PARLIAMENTARY CORRESPONDENT

MEMBERS of Parliament will soon be faced with the difficult task of deciding which vehicles, if any, should be exempted from a Bill which would make it unlawful for motor vehicles to be used on the road without insurance covering the injury or death of a passenger. If M.P.s do not succeed in finding a satisfactory answer, then the measure stands little chance of reaching the Statute

The Bill-a private one, introduced by Mr. John Cronin, the Labour Member for Loughborough-was given its Second Reading in the Commons last Friday, but not before many speakers, including Mr. John Hay, Parliamentary Secretary to the Ministry of Transport, had expressed anxieties about the consequences if it were to become law.

Mr. Hay pointed out that the majority of owners of commercial vehicles, which were covered by the Bill, did not insure against passenger liability because their vehicles rarely carried passengers. Many firms, he said, had strict rules against the drivers of their vehicles taking passengers

Milk Floats and Tractors?

What, he asked, was to be done about vehicles such as milk floats and tractors which clearly were not designed to carry passengers, but which on occasions might well be doing so?

Mr. Nigel Fisher (Tory, Surbiton) said he imagined road hauliers would object if they had to pay passenger insurance when they did not want their drivers to pick up passengers anyway, while Mr. R. Gresham Cooke (Tory, Twickenham) made special mention of British Road Services who did not permit passengers to be carried.

" Presumably B.R.S. would not be forced to take out cover for passengers when to carry passengers is against the law or against their own rules."

Mr. R. J. Mellish (Labour, Bermondsey) said that he would oppose those who wanted to contract out. "Compulsory insurance is right in principle and it should apply to all," he declared.

IN REVERSE

DARLINGTON Transport Committee has decided to change the colour scheme of its buses from blue with cream bands to cream with blue bands. The change-over of the 63 buses will take three years.

New Transport Companies

Pyford Brook Motors, Ltd. Cap. £100. Dirs.; Gibson, Pyford Brook Garage, Afrewas, and J. Ketnor. 26 Swallow Croft, Liehfield. Sec.; J. Ketnor. Reg. oilice: 40 Abbey Street,

Nuncaton.

Busfly Haulage, Ltd. Cap. £100. Subs.: J.
Herbert and T. A. Herbert, 156 Strand, London.
W.C.2. Sec.: T. A. Herbert.
Andrews Associated Haulage Co., Ltd. Cap.
£100. Dirs.: B. B. Andrews, Cranbourne House,
Cranbourne Drive, Hoddesdon, Herts, and H. M.
Newman, 109 Wolmer Gardens, Edgware, Midds.
Sec.: H. M. Newman. Reg. utilice: 109 Wolmer
Gardens, Edgware.

Gardens, Edgware.

E. and G. Range (Successors), Ltd. Cap. £100.

Dirs.: S. L. Sparks, 28 Hermes Street, London.

N.I. and A. T. Paine. 28 Brycedale Crescent.

London, N.I.4. Sec; S. L. Sparks. Reg. office: 28

Hermes Street, London, N.I.

Homoon, N.14. Sec.; S. L. Sparks, Reg. office: 28 Hermes Street, London, N.1.

J. McAllister, Ltd. Cap. £100. Dirs.: J. McAllister and Mrs. L. McAllister and Sonning Avenue, Litherland, Livernool, Sec.; L. McAllister, Reg. office: 16 Sonning Avenue, Litherland, Bridge Motors (Edenbridge), Ltd. Cap. £100. Dirs.: A. D. Honour and Mrs. M. A. Honour Bridge House, Edenbridge, Kent. Sec.; A. D. Honour, Reg. office: Bridge House, Edenbridge. Charles Salt (Transport), Ltd. Cap. £3,000. Subs.: H. Salt, 88 Grossenor Avenue, Oak Hill; Stoke-on-Frent, and D. C. K. Salt, 36 Poplar Drive, Blutton, Stoke-on-Frent, Charles Transport, Ltd. Cap. £100. Dirs.: L. G. Whitman and Mrs. J. M. Whitman, 71 Hayes Lane, Fromley, Kent. Sec.; J. M. Whitman, Reg. office: 54 Cannon Street, London, E.C.4. Fopmars, Ltd. Cap. £109. Subs.: J. Herbert and T. A. Herbert. 156 Strand, London, W.C.2. Sec.; T. A. Herbert

Fred Howarth (Coal and Haulage), Ltd. Cap. £1,000. Dirs.: F. Howarth. 32 Dineley Avenue. Iodinorden. and S. H. Gledhill, S. Hammerton. Terrace, Fodinorden. Sec.: S. H. Gledhill, Res. office: Howorth Street Garage, Todinorden. F.R.B. Trassport, Ltd. Cap. £100. Dirs.; F. A. Brock, Sprinafield, Ildert Road, Kingsbridge, Devon. and H. C. Frost, Byacoie, Deer Park, Tavistock, Reg. office: Springfield, Ildert Road, Kingsbridge.

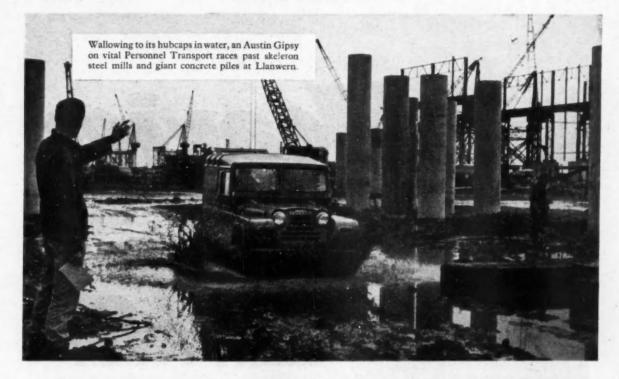
William James (Habalase), Lid. Cap. El00. Dirs.: W. J. Launspach and Mrs. K. E. Launspach, 419. Finchampstead Road, Wokingham, Borks. Sec.: K. E. Launspach, Reg. office: 419 Finchampstead Road, Wokingham.

Road, Wokingham.

Welbourn Haubage, Ltd. Cap. £100. Dirs.; W. Chatterton, Hunt House, Welbourn, Lines, and W. Barrand, Welbourn Grange, Welbourn. Sec. P. H. Smith. Reg. office: Welbourn Grange, Welbourn. J. E. Edwards, (Transport), Ltd. Cap. £2.000 Dir.: J. E. Edwards, Roselea House, Fox Lane, Broseley, Salop. Sec.; K. D. Edwards, Reg. office: Roselea House, Fox Lane, Broseley, V. Albana, and Sec. J. M. Standards, Reg. office: Roselea House, Fox Lane, Broseley, Ltd. Cap. £2.000 Dir.: J. E. Edwards, Reg. office: Roselea House, Fox Lane, Broseley, Ltd. Reg. office: Roselea House, Fox Lane, Broseley, Ltd. Reg. office: Roselea House, Fox Lane, Broseley, Ltd. Reg. office: Roselea Ltd. Reg. office: Reg.

House, Fox Lane, Broseley, V. Allman and Son, Ltd. Cap. £2,000. Dirs: V. Allman and Son, Ltd. Cap. £2,000. Dirs: V. Allman, B. C. Allman and N. Allman. White Lion, Knighton, near Market Drayton. Sec.; N. Allman, Reg. office: White Lion, Knighton. Flash Transport, Ltd. Cap. £100. Dirs.: A. L. Hooper and Mrs. M. Hooper, 69 Springalae Road, London; N.16. Sec.; M. Hooper, Reg. office: 168 Crescent Road, East Barnet, Herts. F. J. Gravetstocks (Carriers), Ltd. Cap. £250. Dir.: J. H. Burton, 3 Park Hall Road, London, N.2. Sec.; Mrs. R. Davis, Reg. office: 22 Dunstable Road, Luton.

Sourion Transport, Ltd. Cap. £100. Dirs.; D. B. Russell, Hill View Cottage, Little Rissington, Glos. and N. C. Russell, Hill Cottage, Little Rissington. Sec.; W. G. Davis.



AUSTIN GIPSY HELPS BUILD EUROPE'S LARGEST STEEL WORKS

(and proves you can't bog a good car down)

In a forest of cranes and concrete, Europe's largest and most modern steel works is rising at Llanwern, Newport, Mon. Behind it is the famous firm of Richard Thomas & Baldwins Ltd.

This, the Spencer Works, will employ over 5,000 people, produce 1,400,000 ingot-tons of steel a year. The immense enterprise sprawls over 2,800 acres of what yesterday was swamp and hummocky grazing ground. Tour the skeleton furnaces and mills today and you might well think the stamp is holding its own.

The hammering of heavy rains, the constant churning of giant machinery have made the site a waste of mud. Mud and more mud, with axle deep pools between. On ground like this getting about is a major problem. Tough vehicles are needed. Vehicles that will go everywhere, go quickly, never bog down. Austin Gipsys have been ordered.

Rigorous testing

During the worst winter weather of 1959-60, in the early stages of construction, the first Gipsy arrived. Beforemore were ordered the pioneer was given a month of gruelling tests. It came through every hazard with top marks. Six more Gipsys were immediately ordered — for the vital jobs of traffic control and transport of personnel.

At Llanwern armies of men are battling against ground conditions and rigorous schedules to meet the 1961 opening date. The Austin Gipsy is helping them to keep that date.



Traffic Control Gipsy. The driver has to chase down traffic emergencies anywhere on the site. Often he must shortcut through lakes of spongy clay. Here he directs the driver of a 7-ton Austin tipper.

Some facts about the Gipsy

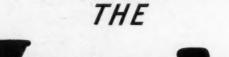
Now on short (90 in.) or long (111 in.) wheelbase. 2.2 litre petrol or diesel engine. 'Flexitor' rubber suspension. High and low ratio in f.w.d. S.W.B. with canvas tilt, hardtop (£50 extra) or as pick-up—£650 petrol, £755 diesel. L.W.B. pick-up—£720 petrol, £830 diesel. Blue, green, fawn or grey.

INVEST IN AN

AUSTIN



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Micrograms . . .

S . . .

Yeoman Open New Branch: Yeoman Credit, Ltd., have opened a new branch at Manor Street, Falkirk, Stirlingshire.

Lucas in Italy: Joseph Lucas (Export), Ltd., have established agents in Italy, who in turn have many sub-agents throughout the country.

Mercantile Branches: The Mercantile Credit Co., Ltd., have opened new offices at 1 Hill Street. Newport, and 135 Wellington Road South, Stockport.

"Red" Film Unit: The Birmingham and Midland Motor Omnibus Co., Ltd., film unit have produced 10 films since their formation in 1955,

Amalgamation: The Wakefield branch of the North Central Wagon and Finance Co., Ltd., has been amalgamated with the Leeds branch at 2 Kelso Road, Clarendon Road. Leeds, 2.

New Rubber Plant: A contract valued at £4.3m. to build a butyl rubber plant at the Esso Refinery, Fawley, has been awarded to Foster Wheeler, Ltd., by the Esso Petroleum Co., Ltd.

Change of Name: G. H. Osborn Building Products, Ltd., announce that the company name has been changed to Osma Plastics. Ltd., operating from the same address: 551 London Road, Isleworth, Middx.

Tie Pins: For long service awards, the Goodyear Tyre and Rubber Co. (Great Britain), Ltd., are to present tie clips or tie chains for men and bracelets for women, bearing the appropriate service emblem,

Exhibition: The Boston (Lines) firm of C. F. Parkinson, Ltd., auto-electrical and fuel injection engineers, of 94 West Street, Mill Lane and Rosegarth Street, have opened a new showroom in West Street.

Takeover: Prime Godfrey and Sons, Ltd., transport contractors, of Swavesey. Cambridge, have acquired the transport business of Mr. E. A. Neville carried on for some time in Top Street, Stretham, Ely, Cambs. Leipzig Crane: As recorded in last week's issue, K. and L. Steelfounders and Engineers, Letchworth, are to exhibit at the Leipzig Spring Fair next month. They will be showing a Jones KL 12-20 lorry-mounted crane based on a Foden-Gardner six-wheeled chassis.

New Bus Depot: At a cost estimated at £693,000 Chesterfield Council are to build a new Corporation bus depot in two stages. The first portion of the scheme will include the provision of workshops, canteen and other facilities for crews, offices and hardstanding.

Southern Ignition: P. G. Tyrer, Ltd., is the new title of the former Southern Ignition Co., Ltd., main Lucas-C.A.V. agents for Brighton, Chichester and Worthing. An associated company, P. G. Tyrer (Turbines), Ltd., is official service agent for Napier turbochargers.

Dorman Engines for U.S.A.: A 20-year agreement has been signed between W. H. Dorman and Co., Ltd., Stafford, and Fairbanks-Morse and Co., Chicago, for the sale of Dorman oil engines throughout the U.S.A. Dorman's expect to earn \$5m, within three years.

Free Booklet: The India Tyre and Rubber Co., Ltd., have produced a new "Safer Driving" booklet, which also incorporates a section entitled "Driving on the Motorway." Copies are available, free of charge, from the company's head office at Inchinnan, Scotland, or from any of its branches throughout the country.

Big Demand for Reivers: Albion Motors, Ltd., report that during the past three months sales of Reiver six-wheelers, have increased by over 40 per cent. compared with the corresponding period 12 months ago. It is thought that the incorporation last autumn of the Leyland 400-8 125 b.h.p. oil engine and non-reactive bogic suspension has been responsible for the increase in popularity.

Another Branch: The Mercantile Credit Co., Ltd., have opened a new branch office at 776 High Road, North Finchley, N.12.

Are You Ca'ling?: High Duty Alloys, Ltd., announce that the telephone number for their Extrusion Division has been changed to Workington 2581-6.

Compensation for the 73 Ceylon bus concerns who were taken over by the Ceylon Government is to be paid in five instalments. The first payment, in June, will be of £225,000.

Geneva Show Opening: Mr. F. T. Wahlen, head of the Swiss Federal Department of Economics and, for 1961, President of the Swiss Confederation, will open the 31st International Motor Show in Geneva on March 16

Wrong Year: In our list of forthcoming events last week we included the Institute of Transport Congress at Cardiff among this year's events. The Cardiff Congress is, of course, the 1962 one, to be held from May 29 to June 1.

400 Missed: In last week's issue it was recorded that about 150 A.E.C. power units had been ordered during January. This figure should have read 550.

Buses Exchanged for Tobacco

CREEK tobacco worth £40,000 is to be shipped to Britain in exchange for bus chassis made by Guy Motors, Ltd., Wolverhampton. Mr. W. L. Drummond, sales director of Guy Motors, Ltd., said; "Import restrictions meant that we have to negotiate a barter arrangement with the Greek company that wanted our vehicles. It was not easy, and negotiations went on for a long time before everyone—including the governments concerned—was satisfied."

Mr. Drummond added that further discussions were in progress which might lead to an expansion of this new export channel. He continued: "It does not necessarily mean more Greek tobacco; the exchange deal could be for sultanas, hazel nuts or whatever might be available and approved for import into Britain."

The chassis concerned have Gardner 6LX oil engines and semi-automatic



This Albion Clydesdale milk tank is being employed during the Scottish Dairy Show, which closes today, on the collection of milk from a bulk-storage tank in the Show for delivery to a local creamery. The vehicle was supplied by Milburn Motors, Ltd., Glasgow, to Alex Scott and Son, Drummore, and has a stainless-steel insulated tank made by Andrew Bros. (Bristol), Ltd., Liverpool. It has a battery-operated stainless-steel pump deriving power from high-capacity vehicle batteries charged by the normal engine generator.

Overseas Production Increases

FIGURES issued recently show that in many countries production of commercial vehicles is on the increase. Production in France last year totalled 193,000 goods vehicles and buses, which included 84,500 from the Citroën concern, 19,000 from Simca, 12,750 from Berliet, 27,500 from Peugeot and 850 from Panhard. The State-controlled Renault works increased its output from 36,000 to 58,000 units over the year.

In the Iron Curtain countries, Russia produced some 286,000 goods vehicles and buses over the first three-quarters of last year, Czechoslovakia some 7,242 units and Hungary 1,460 in the first half of the year.

Italian production of road vehicles other than private cars reached the total of 48,710 units during 1960, and in Brazil some 51,636 goods vehicles were produced last year.

McCallum's Granted Two Artics.

THE application by Peter McCallum and Sons, Ltd., Stirling, for six articulated units on "General goods, Great Britain," was continued at Edinburgh last week. Mr. F. W. Quin, the Scottish Licensing Authority granted McCallum's two units.

Glasgow and District Motorways, Ltd., of Larkhall, who are modernizing and improving their fleet, received permission at Glasgow to vary their A licence to replace a petrol vehicle of 21 tons by a diesel of 31 tons.

NO SEAFRONT BAN

COACHES will not be banned from Weston-super-Mare's seafront in the 1962 holiday season, it has been decided by the town's Works Committee, Recently they turned down a similar move to ban coaches parking on the seafront during the coming season.

Exhaust Brakes

by P. A. C. Brockington, A.M.I.Mech.E.



The electrically operated Ashanco unit (above) is actuated automatically by foot pressure on the brake pedal, heavy pressure bringing the vehicle brakes into action, assisted by the exhaust brake. Operated by a vacuum cylinder, as shown, or by compressed air, the butterfly-valve unit of the Clayton-Oetiker exhaust brake (right) can be mounted in any convenient place in the exhaust system. Various methods of control include operation by a brake-pedal switch through a relay and solenoid.

REPORTS by operators that the use of an exhaust brake does not cause damage to the power unit or increase wear and tear, have failed to convince many potential users that they can employ such equipment with impunity. They remain convinced that "there is a snag in it somewhere."

Before providing detailed evidence on behalf of exhaust brakes, it is appropriate to cite some aspects of design and performance which are not fully understood by typical operators.

When the engine of a road vehicle is being overrun, a large proportion of the work done in compressing the air in the cylinder is restored on the following stroke, despite the absence of fuel and the lack of combustion force. A certain amount of heat is wasted, but this is small and represents the extent of the energy absorbed. The extra braking effort afforded by an exhaust brake is a function of compressing the gas in the manifold and pipe external to the cylinder. In this case, closure of the exhaust valve during the following stroke prevents restoration of energy.

Pumping Energy Loss

A certain proportion of the total pumping energy is lost by virtue of the overlap of the inlet and exhaust valves, which results in blow-back through the inlet valve over a limited number of degrees when the exhaust valve is nearing its closed position. In a conventional engine with average overlap the wastage is, therefore, small but abnormal overlap can be a decisive disadvantage.

Tension of the exhaust-valve springs in relation to valve area is also important. In the majority of standard engines, spring tension is sufficient to resist opening of the valves of the remaining cylinders when one or more of the pistons is pumping gas into the exhaust system, but springs that are too weak to oppose back pressure are the most common reason for an engine being unsuitable for the application of an exhaust brake. Although equipping the engine with stronger springs is relatively simple, this may not be acceptable to the makers.

During a substantial proportion of the compression stroke of a two-stroke cycle, the incoming air is helping to expel the exhaust gas and this is further assisted, in a typical application, by a scavenge blower. The maximum exhaustgas pressure that can be obtained is thereby limited, and the increased load on the blower may cause damage. Clayton-Dewandre, makers of Clayton-Oetiker exhaust brake equipment, state that two-strokes are definitely unsuitable for exhaust brake applications.

Minimum Gas Pressure

According to this company, the minimum gas pressure for efficient operation of an exhaust brake is 25 p.s.i. This may be unobtainable for the reasons given, or because of the low power-to-weight ratio of the vehicle, the pressure obtainable being directly related to the pumping action of the engine, which indirectly determines its output. Average back pressure is about 40 p.s.i.

Obviously the mechanical condition of the engine is also important, faulty sealing at the valves or pistons resulting in loss of pressure. Mechanical faults that reduce brake efficiency will normally, however, result in a substantial reduction in the performance of the engine and represent the outcome of sub-standard maintenance.

Engines listed by the Clayton-Dewandre Co., Ltd., Lincoln, as unsuitable for exhaust brake application include Foden FD.4, FD.6 and FD.12 units, the Ford 4D, the

Prove Themselves

This Analysis of a Controversial Braking System Indicates That it Has Many Proven Advantages, Particularly Saving on Maintenance: No Damage is Done to Engine or Other Units

Leyland O.350, Perkins P3(V), P4(V) and P6(V) engines, the Rootes TS.3 and the Thornycroft KRN6/S engine.

Cla, ton-Dewandre confirm that an exhaust brake can be fitted to engines equipped with a turbocharger (between the manifold and blower), but point out that obviating loss of blower efficiency depends on reducing the distance between the engine and turbocharger to a minimum. If the brake is applied to a supercharged engine, it is essential that a pressure-relief valve be fitted in the inlet manifold to obviate excessive loads on the working components including the gear drive.

Brakes are offered with control equipment based on air-pressure or vacuum-operated linkage.

Application to a petrol engine is also practical, but involves the use of a separate air intake, which is opened

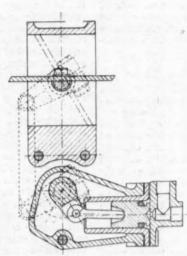
to atmosphere simultaneously with operation of the brake butterfly to provide fuel cut-off. Production of such equipment by the company has not, however, been started because of a number of technical difficulties, the main objection to the application being that the inlet manifold cannot be employed to provide power for a vacuum braking system.

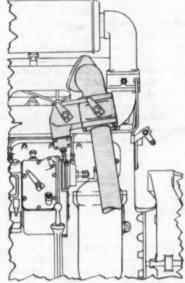
With regard to the possibility of lubricating oil being drawn into the inlet manifold, technicians of the company state that this could only result from excessive clearance between the piston and bore, such as may be found in a badly worn engine. Concerning valve life, it is emphasized that the temperature of the air being compressed in the engine is very much lower than the working temperature of the exhaust gas. It is claimed that the life of the valves should be increased, particularly in the case of vehicles that are regularly used on routes with long descents.

Electrically Controlled Brakes

Commenting on the same aspect of engine wear and tear, it is claimed by Thomas Ash and Co., Ltd., 19 Rea Street South, Birmingham, 5, makers of Ashanco electrically controlled equipment, that exhaust braking on long descents prevents "air quenching" of the engine and thus reduces thermal stressing of the valves, head and block. The claim is also made that the reduction in vacuum on the intake stroke is favourable with regard to oil pumping, and that governor overrun is prevented on down grades.

Some form of fuel cut-off device is required if a pneumatically operated governor is fitted. Back pressure from the exhaust system causes air-pulsation during the period of valve overlap, and this can result in the delivery of excess fuel if no cut-off is fitted. If the engine is equipped with a mechanical or hydraulic type of governor,





An air-pressure cylinder (left) is employed for the operation of the Leyland exhaust brake, the layout of the assembly being shown (above). The brake is controlled by a switch on the horn bracket, mounted on the steering column. The Leyland company state that no engine damage or additional wear and tear has resulted from the application of exhaust brakes to many hundreds of Leyland engines.

regulation of fuel supply is not, however, affected by changes in inlet-manifold pressure.

Both companies state that it is sometimes necessary (Ashanco refer to small engines specifically) to open the butterfly in the induction manifold of engines with pneumatically controlled governors simultaneously with the closing of the exhaust brake. According to Clayton-Dewandre, this is necessary to permit free pulsations in the manifold, and Ashanco say that it is essential as a means of augmenting the air supply.

In addition to a special air cylinder designed to operate the linkage of the fuel cut-off and of the manifold butterfly valve, Ashanco produce a voltage cut-out. The purpose of this is to prevent stalling at idling speed when pressure is applied to the brake pedal. Current is supplied to the brake solenoid through the cut-out, which is connected to the output terminal of the dynamo. When the output of the generator is reduced to a predetermined current corresponding to the idling speed of the engine, the cut-out automatically opens the main brake-solenoid circuit and this releases the exhaust butterfly.

No damage has resulted in the application of exhaust brakes to many hundreds of Leyland engines according to reports by technicians of Leyland Motors, Ltd., who state that they know of no service problems created by the use of this type of brake.

This statement by the Leyland company has particular significance because the concern also manufactures exhaust brakes, and it should entirely dispel any doubts of operators regarding the possibility that employing a well-designed type of brake equipment could damage the power unit or increase maintenance costs.

For many years a Leyland-designed exhaust brake has

been fitted to the Worldmaster chassis, notably to vehicles operating on long-distance Continental tours, many of which involve crossing the Swiss Alps. This brake is an air-operated unit, which in the case of the Worldmaster chassis, actuates the pump-rack to cut off the fuel supply as well as a butterfly-valve in the exhaust system. The air-operated control mechanism is operated by a switch on the horn bracket mounted on the steering column.

Driver fatigue is considerably reduced and a more favourable wear rate of brake lining is obtained. It is pointed out that relieving the drum brakes of load on a long descent ensures that the drums remain cool. Full braking is therefore immediately available for an emergency

stop.

Leyland buses for Huddersfield Corporation are equipped with a similar type of exhaust brake, but in this case the use of C.A.V. S.F.-type of engine governor (described in the February 3 issue of *The Commercial Motor*) eliminates the need for a fuel-supply cut-off device.

No Increased Wear and Tear

Although no special tests of exhaust brakes have been made by A.E.C., Ltd., technicians of the company are completely satisfied that their use does not cause damage and does not increase wear and tear of the engine. This view has been mainly derived from the favourable opinion of operators, and it is notable that Glenton Tours, Ltd., 397 Queen's Road, New Cross Gate, London, S.E.14, state that outstandingly successful results have been obtained in the case of an A.E.C. Regal Mk. IV coach.

In a detailed and laudatory review of exhaust brake applications to seven Dennis Lancet, six A.E.C. Reliance and two A.E.C. Regal Mk. IV coaches, the garage manager of this company states that the engine of the first vehicle to be equipped with this type of brake (an A.E.C. Regal in 1954) showed negligible bore wear after 106,000 miles. Of a total of 136,000 miles covered by the coach, 131,000

were completed on Continental tours.

When the engine was overhauled at 136,000 miles, the bearings were in a perfect condition and the engine was reassembled with standard piston rings. The original front-brake linings were refitted after examination at this mileage, the thickness of the linings having been reduced from $\frac{1}{4}$ in. Whilst the rear linings were changed because they were impregnated with oil from leaking seals, the rate of actual wear compared favourably with that of the front linings.

Ashanco exhaust brakes, of the type actuated by a micro-switch on the brake pedal, are employed throughout. In addition, a cut-out switch is fitted to the instrument panel, with which the system can be made inoperative when the vehicle is travelling in congested traffic and so on. Comparable "pro rata" results have been obtained from the second Regal coach, which has completed 116,000

miles.

Four Valves per Cylinder

Application of exhaust brakes to the Dennis coaches was deferred until 1957, because it was doubted whether the four-valve-per-cylinder feature of the engine would be favourable, but all doubts on this score were later removed. The engine of the first vehicle to be equipped with an exhaust brake was examined after 24,000 miles, and its condition was comparable to that of a similar engine that was operated without an exhaust brake. The seven Lancets have now completed individual mileages of 45,000 with about 50 per cent. of the normal brake wear.

A measure of the brake's value, operationally, is shown by the descent of Porlock Hill with a full load of passengers and luggage. This was completed in bottom gear without the use of the brake drums, even on the steepest section. In a general appraisal of exhaust brakes it is stated that their use does not, apparently, increase valve-guide wear and that the condition of the engine oil filters when checked during oil changes indicates that it is not detrimental to the lubricant. Employing an independent switch is considered to offer decided advantages with regard to both safety and cost.

Bradford's Gradients

Gradients steeper than 1 in 10 are frequently encountered in the area covered by public service vehicles of Bradford City Transport, and the application of exhaust brakes to over 100 vehicles in the fleet has provided an outstanding test of the equipment. An Ashanco brake is employed, controlled by an electrical switch on the brake pedal. It is reported that the use of exhaust brakes has reduced the cost of relining the front drum brakes by more than 28 per cent., and by around 17 per cent. in the case of rear brakes. The practice has also provided an appreciable reduction in the wear of the drums.

It is pointed out that the greater reduction in the wear of the front linings can be explained by the fact that a high rate of retardation with the application of the drum brakes imposes a relatively heavy load on the front units by virtue of weight transference and gives a corresponding increase in wear; because the exhaust brake affords a limited rate of retardation and results in negligible weight transference to the front axle, a greater proportion of the load is imposed on the rear wheels. The main saving is, therefore, derived from a reduction in front-lining wear.

According to a report issued by the Ashanco concern, outstanding advantages have been obtained in an application to dumpers with a carrying capacity of 18 tons and a gross laden weight of nearly 32½ tons. In one operation these vehicles negotiated a 200-yd. section with a gradient of 1 in 7 when running between the quarry face and the crushing plant, the surface being of rough stone which was frequently covered with slime. Power units were of Rolls-Royce, A.E.C. and Cummins manufacture, with a capacity of about 11.3 litres in every case.

Drums for Stops Only

Before exhaust brakes were fitted to the vehicles the drum brakes had to be serviced weekly and the axle oil seals had to be replaced at similar intervals. The vehicles have now covered mileages of 9,500 to 25,000 since they were equipped with exhaust brakes, use of the wheel brakes being limited to stopping the vehicle. No brake maintenance or oil seal renewals have been required.

Commenting on operator reaction to the use of exhaust brakes, Mr. B. Goodfellow, general manager of Sheffield United Tours, Ltd., agrees that it is regarded by many as a potential source of engine trouble. Clayton-Oetiker exhaust brakes have been fitted to a number of vehicles in the fleet since 1956, and there has been no engine failure that could be attributed to their use. The first vehicles to be equipped with exhaust brakes have covered between 120,000 and 140,000 miles and no major attention has been required. Mr. Goodfellow believes that a mileage of 200,000 will be attained without any disadvantage accruing from this source. Exhaust brakes are regarded as invaluable, particularly for tours on the Continent, and he observed that they are fitted to the majority of Continental passenger vehicles of all sizes.

Although applicable to operations over a limited period of 12 to 18 months, there is no evidence that the Clayton-Oetiker exhaust brakes fitted to a number of vehicles in the fleet of the East Kent Road Car Co., Ltd., Canterbury, have caused damage to the engine or excessive wear.

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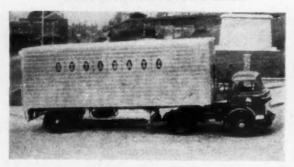
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YORK TRAILER COMPANY LTD.
CORBY NORTHANTS

Political Commentary
By JANUS

SERVICE

Take but degree away, untune that string And hark what discord follows; each thing meets In mere oppugnancy.

SERIOUS though the Merchandise Transport decision is, the degree of shock that it has administered to hauliers may seem out of all proportion. The majority of hauliers, apart from those on long-distance work, may feel little effect, at least for some considerable time to come. Traders and manufacturers in general, once they have examined more closely the opportunity to carry for hire or reward, may well decide it is not worth the bother.

If after all they wish to proceed, there are other ways of attaining their objective. The Merchandise Transport decision is merely the culminating point of a number of cases in which operators with vehicles on A contract licence or on contract hire have been able to convert to ordinary A licence with little difficulty. The consequences have been plain to see for some time and hauliers, although they have grumbled and in some cases pushed their objections to the appeal stage, have not seemed wildly alarmed.

What is special about the latest case? The answer is quite evidently that hauliers see in it the first example of a straightforward conversion from C licence to A licence with no side issues to suggest that it may be an exceptional case. It requires from the haulier a new attitude of mind. He feels like some watcher of the skies when a new planet swims into his ken.

PREVIOUSLY the viewpoint of the haulier had been taken for granted. He had seldom wavered in his opinion that the trader had something near to a divine right to operate as many vehicles as he liked, and in whatever circumstances he liked, so long as he was carrying only his own goods. This apparently altruistic view prevailed even during the period of nationalization, when the C-licence holder, having escaped in the nick of time from proposals designed to limit his radius of operation, was allowed to continue exactly as before, whereas the haulier, including the holder of an A contract licence, needed a permit for any journey beyond a distance of 25 miles from his garage.

British Road Services and British Railways, especially the latter, thought differently. Muffled at first, their complaints gradually became more distinct, until it became a matter of course that each annual report of the British Transport Commission should have its reference to the rapid growth in the number of C-licensed vehicles and the increase in competition that this growth represented. More recently the suggestion has been added that independent hauliers ought to be at one with the B.T.C. at least in their attitude towards the C licence.

The response of the hauliers to any such invitation has been cold. One explanation sometimes given is that the C-licence holder, in another manifestation, is the hauliers' customer and must be humoured even if he is taking traffic away by the use of his own vehicles. This, of course, would apply also to the B.T.C. and is valid only to a limited extent, apart from providing a plausible excuse for those hauliers who, for obscurer reasons, have no wish to attack the C-licence holder.

Their attitude has been governed more completely by the fact that they approve of the licensing system, to which the freedom to carry one's own goods forms an essential

corollary. The B.T.C., it is true, also approve of the system, but see it from the outside. Even B.R.S., although theoretically part of it, find little difficulty in practice in getting what licences they need. There is no reason that the B.T.C. can understand for not making the restrictions tighter, whereas the hauliers, having lived within the system for so long, appreciate how the parts are inter-related.

Not that they think the system perfect. But their objection to the peculiar and privileged position of the farmer C-licence holder, for example, is that it is an anomaly, an aberration that draws attention to the direction in which the true north lies. The exception proves the rule. With more and more difficulty, hauliers have tried to apply the same principle to what they cannot help thinking have been some very queer decisions by the Transport Tribunal over the past few years. The limit has now been reached and overstepped. Hauliers feel that, now the Merchandise Transport case has been settled, it is no longer possible to make sense of the licensing system.

There is a real danger that the disorientated hauliers may begin to doubt their previously unquestioned belief in the freedom of the trader to carry his own goods. Their former attitude, after all, is not one that would be taken for granted in every industry. The point of view of the B.T.C. is far commoner. The do-it-yourself man comes in for severe criticism from tradesmen who allege he is taking away their livelihood.

The haulier has not been moved to protest in the same way, even when he has built up an efficient transport organization which the customer has then taken over for himself. Such a procedure, disheartening though it might be, has seemed part of the natural course of events. The case is altered when the customer not merely elects to carry his own traffic under C licence, but is aiming to carry the other traffic of the haulier as well. The haulier, who at times has almost boasted that he is a servant of the public, questions the whole basis of his servitude.

FROM the point of view of the C-licence holder this could be a subversive way of thinking and it has its dangers for him. The hauliers have considered themselves closer to him than to the railways and have joined with him in representations to the Government on such things as roads and the construction and use of vehicles. What could now happen is that hauliers would tend to regard themselves as professional carriers rather than as road transport operators. They would be drawn to ally themselves with the B.T.C.

Politically the combination would be extremely powerful. The influence of the haulier over the Conservative Party has been exaggerated to the point of absurdity, but there is a feeling within the party that the hauliers, in addition to being vociferous about free enterprise, have played their part in justifying it.

If the Government are for these reasons inclined to be sympathetic to the road haulage case, they will hear with real anxiety what the B.T.C. have to say. One last desperate effort is in hand to bring the railways back to solvency. The latest activity of the Transport Tribunal can hardly be said to be helping the effort. All in all, there will be powerful arguments to persuade the Government to positive action with the intention of saving the licensing system from disintegration.

Is Goods Licensing Out of Date?

The Possibilities of Changing the Present System are Discussed by RALPH CROPPER M.Sc.(Econ.), B.A., A.M.Inst.T.

HOULD the present carriers' licensing system go on indefinitely without change? This is a question I find myself repeatedly being asked by hauliers. The Road Haulage Association, as The Commercial Motor has reported, are actively considering the matter. Members of Parliament have raised it from time to time. Just before Christmas the publication of the White Paper on nationalized transport gave rise to speculation about whether, in the light of the broad proposals contained in that document, there should be some change in licensing law.

The hauliers' reason for raising the question was as one of their considerations in the valuation of licences and transport businesses, and as a factor in deciding the extent of

their investment in road haulage.

Although the goods licensing system has been with us for some 27 years, that does not necessarily mean that it will go on for ever. In Ceylon, I was recently told, there had been a road goods licensing system not dissimilar to ours; this was wiped out about two years ago by a mere slash of the pen. It was decreed that, as from a specified date, licences would no longer be required. This is a simple expedient. In this country, back in 1947, the Government dealt with the matter by paying compensation after buying haulage businesses. That was because it wanted to set up its own transport operations.

Whenever discussion takes place these days on the future of the industry it is generally argued around nationalization. But what are the arguments for licensing at all? What are the reasons, from the national point of view, for

any system of licensing?

There is no industry other than haulage which has a special system of control of this kind. Licensing entails restrictions. In a free world restrictions require justification at the bar of public opinion.

The Railway Point of View

It comes back to the railways, and so it is far from being a waste of time to recapitulate a little history. The A- and B-licensing scheme arose out of the Road and Rail Traffic Act, 1933. That Act emerged almost directly from the Salter Conference of 1932, which was a commission appointed to advise the Government on transport legislation. Half of the members of the Salter Conference were the top railwaymen of the time so, to put it middly, the railway point of view was not overlooked.

The Salter Conference had followed the Royal Commission on Transport of 1928 to 1931, which had been set up to examine the plight of the railways and their extremely serious financial position. The railways' problem had arisen from the tremendous growth in the 'twenties of road transport, both passenger and goods. It was, above all, the viewpoint of the railways that carried

the day and the railways felt that, to protect their own interests and investments, the control of the strong, competitive rival was essential. Hence the origination of the licensing system.

Since licensing started, the railways have lived up to their policy. They have continually pressed for the limitation of road haulage. The controls can broadly be grouped into three aspects: control on entry against newcomers; control on expansion by existing licence holders; control on changes within the framework. The degree of railway pressure is undoubtedly greatest against the first group, slightly less against the second, and more moderate against the third.

Restrictive Pressure

Very often applicants for licences are surprised to receive a railway objection. When it has been received, they are prone to try to brush it aside with some convenient phrase as: "Well, that's a formal objection, anyway, as they can't do the work." The important thing is that it is the railways who have maintained the pressure on the system and thus have retained its restrictive nature. If the haulage industry likes the licensing system—and I have yet to encounter any body of opinion amongst hauliers which would wish to see its abolition—then the industry should be grateful to the railways for ensuring that the system remains restrictionist.

It is well to pause and think what might have happened to the system if the railways had not taken the active part which they have. Nearly all the leading cases have come about because the railways have objected and then appealed. Both the Licensing Authorities and the appellate Tribunal have recognized that they had to play ball with the railways. They were in desperate need of the railways to provide the opposition, to put up the counter-case.

If the railways did not do this, the only other opposition that could have arisen (omitting, for the moment, British Road Services) lay in objections from other hauliers.

Hauliers may possibly be united in objecting against newcomers, but they cannot possibly be so unanimous in objecting amongst themselves—if only for fear of subsequent reprisals. There is also the fear that legal strings drawn tightly around an opponent may still be found to exist when those same hauliers themselves become applicants at some later date. Thus, the authorities and the Tribunal have been anxious to give the railways some sense of self-satisfaction in that they achieved a fair degree of success in their objections and appeals.

Just one short word about British Road Services. When they were outside the licensing system (prior to the 1953 Transport Act), they were as energetic as the railways in pulling the strings tight around the neck of the rest of the road haulage industry. Since then, when they have become subject to licences issued discretionally by the same

Licensing Authorities to whom they objected, they have modified their tune. They certainly do not favour too much restriction, except against the newcomers.

All this pressure on the licensing system must have cost the railways a great deal. Perhaps we should not press too much for this interesting piece of information for fear of the staggeringly high figure that might well be disclosed. But let us weigh that figure as an ordinary commercial calculation—just as one would weigh any figure of cost in any business enterprise.

A Cost Investigation?

The question to ask is whether the results justify the expense. This is, indeed, a question. When one considers the amount of traffic that the railways lose to C-licence operators, it is a source of debate whether the amount of traffic they gain in return for their costs in opposing A and B licences makes up for it. It would be most interesting to know whether the railways have ever made a cost investigation on this subject. If they have, I would dearly like to see their report. It would have a fundamental significance for the haulage industry.

This issue must be weighed also against the background of the changing railway scene. Since 1953 the railways have enjoyed a degree of commercial freedom which they had never before known. The new legislation not only freed them from compulsory publication of rates and charges, but virtually gave them a free hand to charge as they wished. Clearly they could now discriminate in

favour of traffics that they wanted to carry.

Perhaps it is a relief to the haulage industry that the railways have still not become as commercially "keen" as, by statute, they are now entitled to be. But it has started to make the railways cost-conscious in a way never known before. One railway region in particular, under Sir Reginald Wilson, has been making considerable strides in this direction, even though it takes a long time to get a time-honoured institution like the railways into a new gear.

Are the railways no longer going out to seek their traffic by the costly machinery of restricting road transport, and hoping that the traffic will trickle back to them, but by the normal method (known throughout industry) of price-competition? Some people may well be asking what the railways have got to lose by trying this method—and trying it persistently and on a large scale.

Those people could include the leaders of the new State transport system that will include men from industry and commerce at large, and not only from the railways. These men have been trained in competition as being the motivation for business enterprise. They have grown up accustomed to seeing competition as the natural lubricant of industrial development. Is it not natural that they would immediately think to apply the same ingredient to

the railway problem?

Perhaps the Stedeford Committee themselves, when carrying out this probe, called upon the railways for a report on the costs of objections to licences. No one knows just what the Stedeford Committee told the Minister. Publication of their reports, or indeed of any glint of information on their findings, has been consistently denied. If Stedeford told the Minister that the railways were no longer getting value for money in objecting to carriers' licences, and urged him to instruct the railway to withdraw all part in licensing proceedings, that would

immediately create a big vacuum in the licensing scene.

What Arguments?

I wonder what arguments the road haulage industry could find to justify the continuance of the licensing scheme? The arguments would need to be something better than special pleadings of self-interest by the hauliers, and would have to show that the broad national interest required the continuance of licensing as at present.

To deal with non-restrictive matters, such as drivers' hours and vehicle condition and so forth, there could still be a simple licensing arrangement by enlarging the scope of C licences to cover every goods vehicle operator. Apart from such matters dealt with in this sort of way, there could well be some serious review of the continuing need for the restrictions contained in the present A and B system. Will this lead to a slashing of the system, by a stroke of the pen, as happened in Ceylon?

Renault Enlarge Spare Parts Service



Spares are delivered by four articulated vans, with A.E.C. Mercury tractive units and Taskers semi-trailers.

A NEW spare-parts depot was officially opened last week by Renault, Ltd., at their Western Avenue, London, W.3, headquarters. The new depot has a floor area of 33,000 sq. ft., in which respect it is twice the size of the previous stores, and can accommodate parts to a total value of over £300,000.

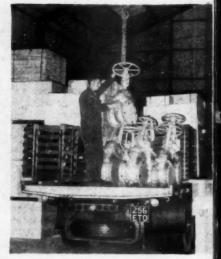
Another innovation is the development of Renault's own parts-delivery service, for which four A.E.C. Mercury tractive units and five Taskers box-van semitrailers are employed. A loading bay, 237 ft, by 45 ft, has been added to the existing buildings for the purpose of this delivery service. Each Renault distributor receives deliveries once a fortnight by the new system.

A 24-hour ordering service is provided, a telephone-answering machine having been installed in the stores office which records on tape urgent demands at any time of the day or night.

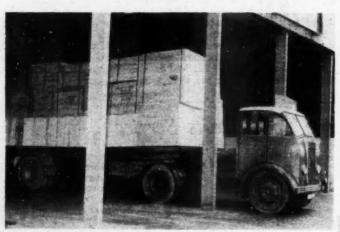


(Above) A general view of the Marshalls' premises — office block in the foreground with the main warehouse behind. (Right) An A.E.C. Mercury — Marshalls use these A.E.C.s for both wunking and delivery services — during loading.



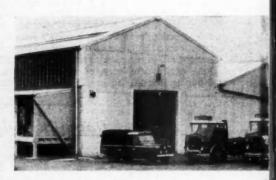


Job Famil in Docks



(Above) An overhead gantry crane is used to load cases, in this instance onto a Seddon articulated unit. (Below) The Marshall Land-Rover service vehicle outside the service bay.





(Above) A general view of the front of the new, modern wareholder, an Atkinson eight-wheeler, leave.



(Left) Plenty of headroom simplifies the loading of mixed goods en route for the docks. (Below) A corner of the modern canteen, over which Mrs. Marshall presides.





iarity Promotes Efficiency

Plenty of light, ample headroom and modern equipment are features of Marshalls new warehouse. The Atkinson is being loaded for the docks.

Traffic



use. (Below) The oldest vehicle in the for the docks.

Family Atmosphere Plays Vital Part Notts Concern Specializing Docks Traffic: Recent Expansion Has Led to Over Two Acres of Coveredin Area and a Fleet of Nearly Vehicles

in the Efficiency of

T is significant that there is a waiting list for driver vacancies at A. R. Marshall and Sons (Bulwell), Ltd., Bulwell, Nottingham, and that, with the active support of the office staff, the two Marshall football teams are showing great promise. This is indicative of the good relations between staff and management that Mr. A. R. Marshall, and his wife and co-director, Mrs. A. R. Marshall, have built up over the years. In the family atmosphere they have created there is no relaxation of discipline, but sympathetic advice and a helping hand are always available in domestic and other crises.

On a more mundane level, all the staff, including the drivers, have the benefit of pension and welfare schemes, and a newly opened building provides up-to-date canteen facilities as well as a modern office block.

The two sons of the family, Mr. Howard Marshall and Mr. Trevor Marshall, are respectively in charge of docks

A Special Correspondent

traffic ex-warehouse and the paint and body shops, as well as being directors. The only daughter, Miss Pauline Marshall, is a confidential clerk in the accounts office. In the Marshall home there is frequently a get-together of family and staff to the music of the Marshall Moments band, with the help of two organs, a grand piano and assorted instruments. Mr. Marshall's claim that "We take our leisure quietly" should not, therefore, be taken too

The concern specializes in docks traffic, for which the provision of extensive warehouse accommodation is an essential part. It is pertinent that Mr. Marshall established his first warehouse at Bulwell in 1930, three years after he founded the company. With the latest addition of a new 20,000-ft. warehouse in October, the total covered-in area on the concern's seven-acre site was augmented to over two acres. Parallel with this development, the recent takeover of a number of haulage companies increased the size of the fleet to nearly 100 vehicles.

In 1958 B. Keetch (Hauliers), Ltd., became part of the Marshall Group and early in 1960 the company acquired and B licensed vehicles of J. Gamble (Transport), Ltd. Other associated panies comprise Notts, and Derbys. (Carriers), Ltd., and Transport Repairs (Bulwell), Ltd., the latter concern being responsible for the



Mr. A. R. Marshall, the managing director.

(Below) Use of the B.E.N. Saga grease-gun enables vehicles to be lubricated while fully loaded.



maintenance and repair of the fleet. The Marshall companies now have more than 600 regular customers, and over 1,000 tons of goods are handled daily by the group's vehicles. A large tonnage is also sub-contracted to selected hauliers, and deliveries cover all major centres of the country.

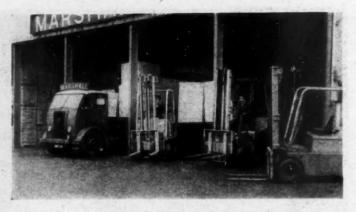
During the nationalization period Mr. Marshall was manager of the B.R.S. Bulwell depot based on the original premises of the

company, and after denationalization in 1954 he went back into business as a private haulier with 10 vehicles. Initially concentrating on traffic to Liverpool docks, an office was later opened in King Edward Street, Liverpool, and a parking area was acquired on the outskirts of the city. Today, the main trunking run of the Marshall fleet is still between Bulwell and Liverpool, on which 14 lorries are regularly employed, supplemented when necessary by extra vehicles. The trunking vehicles have a combined carrying capacity of about 180 tons and operate a night service.

London and Hull

A London office and depot in Victoria Dock Road, E.16, and similar facilities in Albert Road, Hull, enable nightly port runs to these centres to be organized on the lines of the Liverpool traffic. A total of 10 vehicles with a combined carrying capacity of 100 tons is employed on the London run, whilst the Hull traffic is carried by two 10-ton vehicles. In both cases the fleet is supplemented as required. The availability of additional vehicles for docks traffic is an all-important aspect of fleet operations, as many as 20 extra lorries being frequently employed at one time.

A thorough knowledge of shipping conditions and variables on the part of the traffic clerks, combined with the facilities to hold goods in storage at Bulwell pending boat arrivals, is basic to efficient organization of the traffic. This indicates a principle of operation that Mr. Marshall has followed since the early days. In his view, the wise haulier concentrates on specific types of traffic, so that both the drivers and the office staff gain an intimate knowledge of associated problems, and the whereabouts of all vehicles throughout the day can be precisely plotted. Only in this way, he considers, can "deviation from efficient





(Above) Virtually all internal movements are made by a fleet of Coventry Climax oil-engined fork-lift trucks. (Left) A Burroughs Sensimatic typewriter accounting machine has enabled the output of the accounts department to be considerably increased without staff additions.

management" be avoided. It is relevant that a member of the Marshall family is always on call night and day throughout the week to deal with emergencies.

An important example of jobfamiliarity is shown by the employment of shunting drivers at the depots who have a first-

hand knowledge of the difficulties and idiosyncrasies of docks procedure, and who can be relied upon to eliminate delays if it is humanly possible to do so.

Working on a guaranteed week, a trunking driver handling docks traffic makes an outward and return run to the depot overnight, and driving is the extent of his duties. Shunting drivers and traffic staff are responsible for handling loads at the termini, which, at the depots, includes driving the vehicle to the docks, the supervision of reloading and distribution, and collection of part-loads. The vehicles operate in pairs, so that every driver handles the same type of lorry on the outward and return runs.

In the case of the Liverpool trunking runs, eight 24-ton rigid eight-wheelers and trailers divided into pairs provide a combined carrying capacity of 192 tons and are operated in conjunction with two trailer outfits each having a capacity of 18 tons, two rigid solo eight-wheelers with a total capacity of 32 tons, and two 8-ton four-wheelers. The seven vehicles in each shift have, therefore, an overall capacity of 136 tons. On average, backloads represent 85 per cent. capacity.

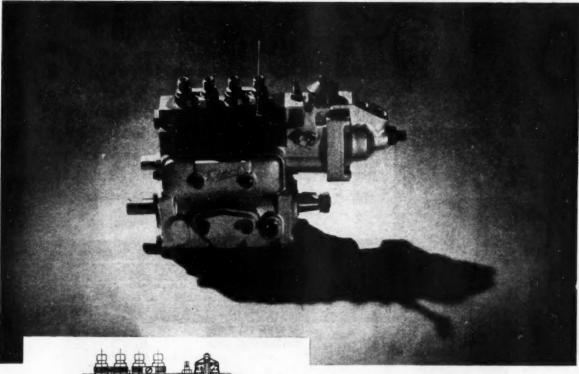
Five Trips a Week

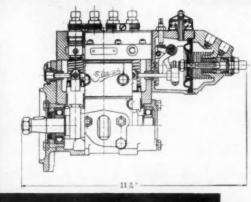
Outgoing vehicles leave Bulwell at approximately 7.30 p.m. and incoming vehicles arrive at about 7 a.m. Each driver normally completes five round trips in a week, and there are three spare drivers to help out in emergencies. Goods in the Liverpool area are handled by 16 shunting drivers and two collection and delivery vehicles. About 95 per cent. of the traffic is derived from the docks, the remaining 5 per cent. being smalls, which are collected within a radius of 5 to 10 miles for transport to Bulwell for distribution over an area of 30 miles.

(Continued on page 87)



MINIVAC (the vacuum governed Minipump)

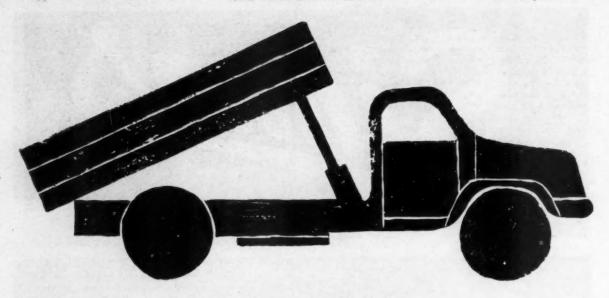




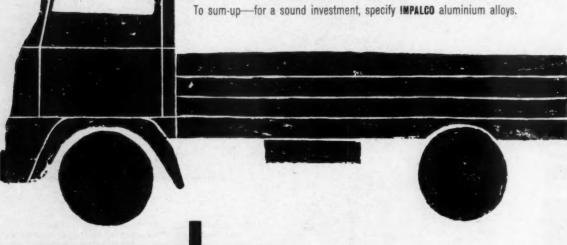
The smallest and lightest of in-line fuel pumps. It involves no unknowns and no untried principles. Its design is based on world-wide experience with this type of pump. And 40 years' experience of in-line pumps gives them world-wide serviceability.

Some points in the design Separate pump-body and cam-box (as in all Simms pumps) simplifies maintenance · Pump body machined from steel, hence no porosity · Outlets threaded steel in steel; finer threads allow closer spacing of pumping elements; hence a shorter, stiffer camshaft and a shorter, stiffer pump admirably suited to flange mounting. It has wide cam tracks and tappet rollers. Pumps are available for engines with 3 cylinders up to 4½ litres; 4 cylinders up to 6 litres: 6 cylinders up to 9 litres.

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Five pairs of 10-ton four-wheelers are used on the London run, giving a total payload capacity of 100 tons. Smaller rigid lorries are preferred to larger vehicles for this traffic in the interests of manœuvrability and easy negotiation of narrow access roads. On this route vehicles travel on M1, which reduces journey time in each direction by approximately one hour. Motorway operation also provides an appreciable saving in fuel, and it is hoped that it will reduce wear and tear on the vehicles. The Hull fleet comprises two pairs of 12-ton six-wheeled vehicles having a combined capacity of 48 tons.

In the main, the trunking vehicles are of Atkinson manufacture, whilst Leyland Comets are employed for collection and delivery in Liverpool and London. An Albion 6-8-ton lorry is used for collections in Hull. A.E.C. and Albion lorries are also included in the trunking and delivery fleets, and a number of Thames vehicles is employed for local work in the Nottingham area.

Drivers on trunking operations work to a guaranteed week of 62 hours. In the case of the supplementary vehicles, or "roamers," the driver is guaranteed 68 hours.

A smalls service is operated in conjunction with the trunking service on the London and Hull routes, as well as the Liverpool run. Two permanent bays at Bulwell are employed for the receipt and dispatch of smalls, each bay being divided into sections corresponding with the districts served.

Eight-wheelers

A more detailed analysis of the Marshall fleet, apart from the vehicles operated by the Keetch company, shows that it comprises 24 eight-wheeled lorry-and-trailer outfits, each having a carrying capacity of 24 tons; eight 18-ton four-wheelers and trailers; eight 12-ton rigids; six 16-tonners; and four 18-ton articulated outfits, the remaining 25 vehicles being four-wheelers with an average carrying capacity of 10 tons.

As reported in the November 4, 1960, issue of *The Commercial Motor*, features of the new warehouse include a crane bay equipped with a travelling overhead electric crane of 3-ton capacity, and the building is laid out to facilitate the use of fork-lift trucks, the total number of intermediate stanchions being reduced to eight. A fleet of six Coventry-Climax oil-engined fork-lift trucks of 2-ton capacity is employed, and a further two machines will be acquired in the near future. Virtually all internal movements are performed by these trucks.

Pallet loading on vehicles is also an essential part of the work of the fork-lift trucks, about 35 per cent. of the goods carried being loaded in this way. A high proportion of foodstuffs and tinware is carried on pallets, and this form of transport is increasing, in many cases at the instigation of the customer following the mechanization of handling on his own premises.

The 24 vehicles of the Keetch fleet are based mainly on Leyland Comet four- and six-wheeled chassis and include platform vehicles and tippers. Operations of the fleet consist mainly of work for the Stanton Ironworks Company, the platform vehicles carrying concrete and spun-iron pipes up to 72-in. diameter on special cradles, whilst the majority of tippers are used for the transport of hot asphalt. These vehicles are fitted with special Sparshatt insulated light-alloy bodies, the floors of which are heated by exhaust gas to prevent solidification of the load during the delivery run. The sides of the body are insulated, and exhaust gas is ducted through a double-skin floor. A sliding-type cover is fitted, and it is normally possible to deliver asphalt up to 120 miles without solidification.

Every vehicle is serviced at 14-day intervals in a special bay by trained mechanics, a particularly interesting aspect of which is the use of a B.E.N. Saga grease gun. This





Mr. Howard Marshall (left) is in charge of the export section; Mr. Trevor Marshall here supervises alterations to the power house.

enables the vehicles to be greased when they are fully loaded, no other type of equipment employed experimentally having given the same advantage. A high-pressure jet of air is initially discharged from the gun, and this lifts the shackle from the pin as well as blowing out any dirt that may be present. A shot of grease is injected into the shackle in the wake of the air jet.

Drivers are issued with a defects sheet and immediate action is taken to remedy any reported defect by the staff of seven mechanics in the workshop. Major overhauls are authorized "as required," engine replacements being in the main decided by increases in fuel and oil consumption. No major overhauls are performed on the premises, replacement units being supplied by local distributors. Only one grade of lubricating oil is employed summer and winter, the lubricant being of the detergent type. Vehicle sumps are filled or replenished with the aid of a Balz trolley tank equipped with a flexible feed pipe. The use of this tank is highly commended on the score that it obviates contamination of the sump oil when filling:

Long Tyre Life

Tyre maintenance is supervised by the Nottingham Tyre Service, whose staff make a detailed inspection of all covers during the week-end and ensure that inflation pressures are correct and twinned-tyres are accurately matched. This is combined with checks of wear and defects, and the value of the service may be judged by the long life of the tyres. Up to 70,000 miles is obtained in the case of the trunking vehicles, and the tyres of tipping vehicles sometimes operate more than 60,000 miles before replacement. Dunlop tyres represent about 60-70 per cent. of the total, the remainder comprising a number of makes which are being used experimentally.

Accurate costing is regarded as an all-important requirement, and profit-and-loss accounts are prepared monthly, as well as quarterly and annually. The recent introduction of a Burroughs Sensimatic typewriter accounting machine has enabled the overall output of the accounts department to be substantially increased without adding to the staff, and the more detailed information obtainable promises to be an important factor in policy making. Records are prepared covering running-cost details of each vehicle in the fleet, warehouse operations, maintenance work and all routine aspects of fleet organization. Costing is also applied to vehicles according to type, group and service.

The unit method of documentation is employed which enables a six-part set of traffic notes to be prepared without the use of carbon paper. This represents a valuable time-saving practice.

Ingots by Road Save Heat



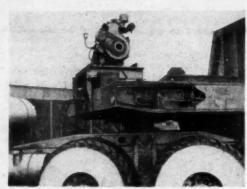
Atkinson-Dyson Artic Carries "Red-hot" 50 Tons

ESIGNED to transport an ingot load of 50 tons, a special articulated outfit with an insulated container has been used experimentally at the Corby works of Stewarts and Lloyds, Ltd., Northants, to facilitate the transfer of ingots, which generate a temperature of over 1,000 degrees C., from furnace to soaking pits.

Although the use of road vehicles for ingot transport on a commercial scale could not be co-ordinated with the existing rail system, the project has substantiated the suitability of a fleet of such vehicles as the normal means of transport, given that the works were reorganized accordingly. If this were done, three or more vehicles would be employed on a regular shuttle service between the two plants, with a total mileage of 7,000-8,000 a year.

Reduced Heat Loss

As shown by the results of the experiment, road transport would afford a reduction in transfer time and would substantially reduce heat loss. Transported by rail, the ingots are transferred to the soaking-pit area in the original moulds and heat loss represents a serious wastage. Stripped



(Above) The structure of the insulated container is clearly seen in this picture of the wehicle, used by Stewarts and Lloyds, Ltd., for the transfer of ingots. (Left) The from end of the trailer, showing controls for the air-motor operation of the top doors, the turn-table, the auxiliary motor and part of the air tank.

at the Open Hearth plant before loading, ingots carried in the container can be maintained at a very high temperature for several hours.

Hauled by an Atkinson 6 x 4 tractor, the ingot carrier is based on a Dyson twin-bogie-type trailer built to the specification of the steel company's technicians. The gross laden weight of the vehicle is about 120 tons, and although restricted to a maximum speed of 15 m.p.h. in the works, the outfit has been tested with a full load up to speeds of 25 m.p.h.

Underslung Container

The underslung hopper-type ingot container, supplied by Hardy Martin, Ltd., is 16 ft. long and 10 ft. wide and is lined with a layer of 4½-in. insulating brick and 9 in, of refractory

brickwork, whilst the two trapezoidalshaped sliding covers are lined with refractory concrete. The 5-ton ingots are loaded in five pairs, each ingot resting against one of the container sides. A heat-insulating shield is located at each end of the container part of the unit.

Air Motors

Because of the intense heat radiated by the ingots when they are being loaded, air motors are employed in place of the hydraulic type for opening and closing the rail-mounted covers. The Broomwade reversible motors are of the type normally used for hoisting and operate the covers by means of a chain mechanism in both cases.

Air Supply

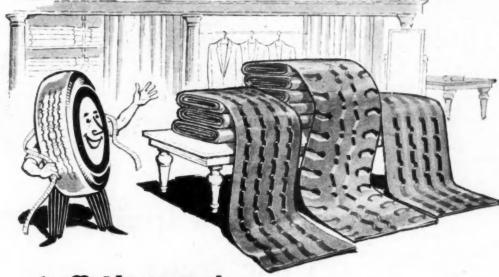
Air is supplied by twin Tu-Flo engine-driven compressors having a combined output of 19 cu. ft. per min. at 2,000 r.p.m. and the air supply is augmented by a Westinghouse auxiliary compressor on the trailer driven by a Petter P.H.2 10 b.h.p. diesel engine, controlled from the cab, having an output of 29 cu. ft. per min. The air reservoir is transversely mounted on the tractor.

The tractor is powered by a Cummins NH-6 naturally aspirated six-cylinder oil engine having an output

(Continued on page 89)



A close-up of the rear bogies. The outfit has been tested with full loads up to speeds of 25 m.p.h.



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Anglfloor Mortar Tipping Body

A SPECIAL mortar-carrying tipping body, known as the Anglfloor type, has been provisionally patented by Mr. H. A. Skelton, of Walsgrave-on-Sowe, nr. Coventry, and is fitted to a Leyland Comet chassis for operation under contract to Lime-Sand Mortar (Southern), Ltd., Meriden. The body was built by Mr. T. Skelton and is designed to give a

and is designed to give a controlled rate of discharge and to eliminate splash. It can also be used for other types of semi-solid material.

Features of the body include a dropped-frame extension, in which the

pivots are located, and a self-opening tailboard, which opens progressively as the body is tipped. After the release of a manually operated locking mechanism, the tailboard opens a distance of about 6 in., and approximately ½ ton of material

is discharged freely down the sloping face of the extension. This forms a "cushion" for the remainder of the material, and the tailboard acts as a guide and a shield. With the body in the fully tipped position, the tailboard is horizontal and does not contact the material during movement.

The hinged and slotted tail-board control is clearly seen in this close-up of the Anglfloor body.

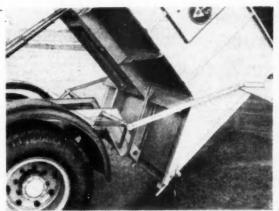
Ingots By Road (contd.)

of 212 b.h.p. at 2,100 r.p.m. and a maximum torque rating of 580 lb.-ft. Torque is transmitted through a fluid flywheel coupled by a Layrub-jointed jack shaft to a Self-Changing Gears RV.38 five-speed air-operated gearbox, and thence to a Kirkstall Forge doubledrive bogie with double-reduction axles, each of the axles being equipped with two epicyclic reduction gears outrigged from the differential. Gearbox ratios comprise a first gear of 6.32 to 1, a second gear of 4.28 to 1, a third gear of 2.426 to 1, a fourth gear of 1.59 to 1 and a top gear of 1 to 1. Final drive ratio is 6 to 1.

Steering Servo

A Clayton Dewandre air-pressureoperated steering servo is fitted, and this feature combined with easy gear changing is a valuable aid to manœuvrability and exact location of the vehicle in confined spaces. Both tractor and trailer are fitted with an air-pressure braking system of the same make.

Tractor and trailer bogies are equipped with Dunlop 14.00—24 (22-ply) covers, whilst the front wheels of the tractor carry Dunlop 12.00—20 (14-ply) tyres. Conventional leaf springs are employed for the tractor front axle, and the bogie suspension is of the trunnion-mounted leaf-spring type.



Each trailer bogie comprises a swinging beam with trunnion ends on which are mounted in-line-type wheel carriers. This arrangement provides a notably "good ride" for the ingots over rough and uneven ground—an important consideration on this type of work.

Overall Length 54 ft.

Main dimensions of the outfit include a tractor length of 22 ft. and a trailer length of 41 ft., the combined length being 54 ft. The overall width is 12 ft. 6 in. and the height of the main frame is 6 ft. 11 in. Longitudinal chassis members are of 11 in. \times 3 in. channel-section of $\frac{1}{8}$ -in. gauge. Details of equipment include a fifth-wheel type tractor-trailer coupling and manually operated support jacks.

Capacity of the air reservoir is 29 cu. ft.

The vehicle is lubricated throughout with Mobiloil products, an S.A.E. 10W/30 multigrade oil, Delvac Special, being used for the engine and gearbox, a multi-purpose S.A.E. 90 gear oil, G-X90, for the rear axles and a multi-purpose grease, Mobilgrease MP, for the chassis. This standardization of lubricant is in accord with Stewarts and Lloyds' general policy relating to road vehicles. Under the supervision of the Mobiloil company, a single grade of engine oil is employed for all cars and commercial vehicles operated by the concern, whilst one grade of axle oil and one grade of grease are universally applied to every vehicle that is operated in

Expansion Trends in Haulage

B Licences for 51 Vehs. Sought by Tipper Operators

AND B licence applications to Areplace contract A licences loom large this week, led by 28 tipper operators in the Western area who seek B licences for 51 vehicles to carry for English China Clays. Ltd., and their subsidiary and associated companies.

Midland Haulage, Ltd., in the North West, seek 11 vehicles on A licence, eight from B licence and three from contract A: G. Brown and Son, in Scotland, apply for two A vehicles from contract; and there are contract-to-public A applications also in the Western and West Midland areas.

Other important applications include: Gomm's Commercial Motors, Ltd., Cardiff, 14 vans to A licence; Oswald Transport, Ltd., Ayr, eight artics to A licence; Magnor Transport, Ltd., seven vans on a new A licence; and R. Durham and Sons, Ltd., four eight-wheeled tippers to A licence.

Hull and Glasgow Road Carriers, Ltd., and William McLucas and Son, South Queensferry, were both granted two additional A vehicles in place of contracts.

SCOTTISH (NORTH)

Applications

Applications

SN 4/2/1.—Black Isle (Transport), Ltd., Dingwall, new A lie. 1 veh. (8t) B.R. G.B. to replace special A veh. (3t).

SN 4/2/2.—Allisons Transport (Coutracts), Ltd., Dundee, A var. add 13 arts. (8t) in place of 13 veh. (68).

SN 4/2/3.—James McB. Seible, Kincilar, new B lie. 2 veh. (7\frac{1}{2}0) and SN 4/2/4.—Genge P. Smart, Alford, new B lie. 3 veh. (10). Conditions for all 5 vehs.; agric. soods for the Capital Lime Co., Ltd., throughout Scotland; shipborne coal dischared by Capital Lime Co., Ltd., at Inverness, Burghead, Peterhead and Arbroath, within 40 miles of these ports. as required. Now on contract A lie.

Decisions

SN 26/11/2.-W. and J. Clark, Aberdeen, new

SN 26/11/2.—W. and J. Chark, Average.
SN 10/12/4.—A. and W. Watson, Auckenblac.
SN 10/12/4.—A. and W. Watson, Auckenblac.
SN 24/12/2.—Kelmans of Turriff, A var. add 2
veh. granted. N.U. Midlands and North West
England deleted and fish meal restricted to—for
Spillers, Ltd., to Birkenbead.
SN 29/19/1.—South Wand Garage Co., Auchtermuchty. A var. withdrawn.
SN 10/12/6.—Williamsons and Son, Maskinch.
new B lic. 1 veh, refused.

SCOTTISH (SOUTH)

Application

SS 4/2/1.—Morris Borthwick, Edinburgh, new A lic. 2 veh. (5t). All classes of goods, mostly electrical, within United Kingdom. SS 4/2/2.—Andrew Johnston Transport, Ltd., Helensburgh, new A lic. 1 veh. (7t). Marine equipment, plant, building mats.; Dunbartonshire, Argylishire, Stirlingshire and Midlothian and destinations

ss required.

SS 4/2/3.—George Brown and Son, Galston, new
A lic. 2 veh. (7t). Mainly goods for James Laidlaw
and Sons, Ltd., with return loads as required. Now

SS 4/2/3.—George Brown and Son, Galston, new A lic. 2 veh. (70). Mainly goods for James Laidlaw and Sons, Ltd., with return loads as required. Now on contract A lic. SS 4/2/4.—Onwald Transport. Ltd., Ayr. A var. add 8 arts. (641). Main'y stampings and machinery between S.W. Scotland and Manchester, Birmingham and London, also within Scotlish Traffic Area, SS 4/2/5.—Turnhull Transport and Packing Co. Ltd., Glaspow. A var. add I veh. (15t). Collection and delivery of goods for applicants trunk services within 25 miles.

within 25 miles.

SS 4/2/6.—T. and S. Transport, Edinburgh, new B lie. 1 veh. (1t). G.g. within 25 miles.

SS 4/2/7.—D. W. Watson and Son, Ltd., Loanhead, new B lic. 6 veh. (21%). Coal, road and building mats, within 20 miles.

SS 4/2/8.—William Smith and Sen, Hamilton, var. 1 veh. (3\ddots). Goods (excluding livestocked household removals) within 75 miles.

Decisions

SS 12/11/6.—Anderson and Co., Glasgow, B lic. I veh, granted.

SS 15/10/1.—W. McLucas and Son, South Queensferry, A var. add 2 veh, from contract A lic. granted.

NORTHERN

Applications

Applications

N. 7/2/1.—A.S.H. Transport, Ltd., Gateshead. A var. add 2 T. (6½t).

N. 7/2/2.—R. Durham and Sons, Ltd., Haverton Hill. A var. add 4 T. (36t).

N. 7/2/3.—J. Croker, West Hartlepool, new B lic. 1 veh. (4t) road and building mats. for Tarmac Roadstone, Ltd., and associated companies in Northern traffic area. Now on contract A lic.

N. 7/2/4.—Border Plant Hire, Ltd., Whitehaven, new B lic. 29 T. and vans (59t) 2 trls. (5½t) goods for Border Engineering Contractors, Ltd., as required. I art. (1lt 7e) low-ldr., carriage of plant, machinery and equipment within 15 miles; goods for B.E.C., Ltd., as required. Now on B and C lic. of B.E.C., Ltd., as required. Now on B and C lic. of B.E.C., Ltd., Thompson, Haverton Hill, B var. add 1 T. (3½f) road and building mats., plant, construction engineers mats, within 50 miles; other goods 20 miles. Now on contract A lic.

NORTH WESTERN

Applications

NW 3.21.—Midway Haubage, Ltd., Golborne, new A lie, 11 veb. (77%), human and animal food within 100 miles. If uranted B lie, renewal app. withdrawn. Three vebs. now on contract A lie, NW 3.22.—Crosshalbage, Ltd., Liverpool, new B lie, 2 veb. (5%), packages and parcels for Shipping Services. Ltd.: mainly Yorkshire, Midlands, Nottingham. Northamptonshire, as required.

NW 3/2/3.—D. M. Turner, Preston, new B l. 2 veh. (41/4). Agric, and industrial goods; G.B. 2 veh, (4)(1). Agric. and industrial goods; G.B. NW 3/2/4.—A. Garside and Son, Rochdale, new B lie. 1 veh. (30). card clothing for A. Duckworth and Sons, Ltd., within 25 miles; yelded goods for Dale Welding Co. within 15 miles; electrical goods for Milnes and Longbottom, Ltd., within 5 miles; furniture and household effects 6 miles; building plant and mats. 25 miles; goods for Oldham Tyre Cord Co. and Standard Mill. Rochdale. 50 miles and to and from Kendal. Now on contract A lie.

Cord Co. and Standard Mill, Rochdale, 50 miles and to and from Kendal. Now on contract A lic. NW 3/2/5.—J. Hall, Heisby, B var. add 1 veh. (4t) goods for Bowaters Fibre Containers, Ltd., Bowaters Multi Wall Sacks, Ltd.; Bowaters, Ltd.; between Bowaters factories within 60 miles.

YORKSHIRE

Y 9/11/2.—G. F. Reed, South Cave, new A lic. 1 veh, granted—switch from East Midlands.
Y 9/11/11.—Sam Allian (Holl), Ltd., B var, add 2 veh, granted.
Y 9/11/12.—H. Falkingham, Hull, B var, add 2 veh, granted.
Y 9/11/14.—Walker's, Preston, B var, add 4 web granted.

Y 7/11/19.
web, granted, grow Bulk Carriers, Ltd., Hull, A var, add 1 tanker, granted.
Y 7/12/4.—Hull and Glasgow Road Carriers, Ltd., A var, add 2 veb. from contract A lic.

Y 7/12/5.—Hunters of Hull (Transport and Ware-housing), Ltd., A var. add I veh. granted.

EAST MIDLAND

Applications
EM 8/2/1.--J. H. Pegg. Ltd., Minsfield, A var.

EM 8/2/1.—J. B. FERR. Letter, add 1 veb, (it 17c).
EM 8/2/2.—N. Clisby, Kirton Lindsey, new B lic 2 veb, (6t 18c) agric, produce and requisites within 100 miles, now on contract A lic.
EM 8/2/3.—J. R. Brumpton, Newack, new B lic. 3 veb. (i10 sand and gravel within 50 miles. One veb, now on contract A lic.

CONTRACTIONS: add, additional; agric., agricultural; art., articulated unit; c, cwt., g.g., general goods; G.B., Great Britain; ind., indivisible; lic., licence; low-ldr., low-loader; mats., materials; N.U., normal user; S.T., special type; t, tons; T., tipper; trl., trailer; var., variation; wh., wheels.

EM 8/2/4.—Red Lion Concrete and Transpor Co., Ltd., Alford, B var. add 2 veh. (13t 6c) ready mixed concrete within 30 miles, and elsewhere a

required. EM 8/2/5.—George Davis (Haulage), Ltd., Nottingham, B var. add 5 veh. (20t 19s) building and road mats, for Wirksworth Quarries and Highways Construction, Ltd., any distance; and for Bestwood Sand Co., Ltd., Wettern Bros., Ltd. and North Midland Contractors and Supply Co. within 100 miles; other building and road mats., 40 miles; other goods 30 miles. Opencast coal as required. Now on C lic.

Decisions

EM 2/11/1.—C. P. Marshall (Transport), Ltd., Scunthorpe, A var. add I veh. refused. B var. add I veh. granted, Potatoes, Lincolnshire, Yorkshire cashire added to conditions

EM 30/11/9.—J. S. Walker (Hauliers), Ltd., Nottingham, B var. add I vch. granted.

WEST MIDLAND

Applications

WM 9/2/1.—L. M. Hughes, Ironbridge, new A
lic, 1 veh. (3%1), mainly metals, building mats, and
scrap; Lancashire, Cheshire, Midlands, London and
South Wales.

with Wales. WM 9/2/2.—Webb Bros. (Contractors, Bilston), Ltd., A var. add 2 vehs. (10t), mainly steel for Stewart and Lloyds. Ltd., within 15 miles; machinery and steel for Cemenation. Ltd., within 30 miles; castings for Bilston Foundries. Ltd., as required.

ow on contract A lic.

WM 9/2/3.—J. Shucek, King's Heath, new B

1 veh. (14t) towing of caravans to seaside

resorts.

WM 9/2/4.—C. G. Richards, Sutton, new B lic. 1 veh. (3½t) canned goods. Herefordshire, Wales and London area; return loads for London Brick Co., Ltd., Wales to London area.

WM 9/2/5.—T. Spiers. Warwick, new B lic. 1 veh. (5½t) cont. (2) livestock for H. J. Rowley and J. Lidgate. Now on contract A lic.

Decisions

Decisions
WM 17/11/3.—T. A. Barwell and Sons, Preston
tynne, B var, add I veh, granted,
WM 1/12/4.—B. M. Cole, Monmouth, new B
c. I veh, granted, livestock—60 miles,
WM 1/12/9.—K. W. Bailey, St. Weonards, new
lie, I veh, granted, bulk lime and slag for Cotssold Lime and Limestone, Ltd., and West Midland
armers Assoc., within 100 miles,
WM 10/11/14.—J. Edwards, Nesschiffe, new B
c. I veh, refused.

SOUTH WALES

Applications

Applications

SW 8/2/1.—Gomm's Commercial Motors, Ltd.,
Cardiff, A var. (a) delete 3 vans (9½t) add 3 vans
(11½t) (b) add 2 vans (7½t) g.g., mainly foodstuffs
from applicant's warefnouse—South Wales, (c) add
12 vans (43½t) mainly cake and confectionery. If
(e) granted 8 veh, (27½t) deleted from C lic. Avana
Associated Bakeries, Ltd.

SW 8/2/2.—Gwynne Bowen (Transport), Ltd.,
Gorseinon, A var. add 5 veh, (35½t) steel and
steel products, tinplates, aluminium, conductors and
scrap metal; England and Wales. B var. add 5 T.
(25t) road and building mats, and coal within 25
miles,

SW 8/2/3.—J. R. Davis, Milford Haven, new B c. 1 T. (3t) all goods G.B.

Decisions

SW 2/11/4.—Abernant Transport (Rhigo), Ltd., A var. add 1 vch. adjourned.

A var, add 1 veh, adjourned.

SW 14/12/1.—Evans and Richards, Llanelly,
A var, add 4 arts, and 1 rigid, goods for Llanelly
Steel (1907), Ltd.; granted.

SW 14/12/2.—Morfa Transport Co., Ltd.,
Llanelly, A var, 5 arts, granted.

SW 16/11/4.—R. C. Hobbs and Son, Carmarthen,
A var, add 1 veh, granted—parcels delivery deleted
from N.U.

SW 5/10/3.—A D. Hooft.

SW 5/10/3 -- A. D. Howells, Haverfordwest, new

SW 5/10/3.—A. D. Howells, Haverfordwest, new B lic. 1 veh, granted, caravan towing within 10 miles and to St. Davids Peninsula and Fishguard. SW 2/11/1.—J. E. and H. G. Jenkins, Boncath. A var. add 2 veh. granted. SW 2/11/8.—D. M. Simons, Cardiff, B var. add

SW 21118.—D. M. Sanous, Carolit. B var. acoveh. withdrawn.
SW 2119/6.—W. A. Calder, Splott, new B lic. vch. withdrawn.

SW 2/11/3.—G, S. John, Pontypridd, A var. 1 veh. granted, cables, switchgear and engineering masses, for Aberdare Holdings, Ltd., Aberdare Cables, Ltd.; South Wales Switchgear, Ltd.; and Aberdare Engineering, Ltd., G, B, SW 2/11/2.—G, Phillips, Newport, A var. add 1 veh. granted, steel and aluminium deleted from N. U.

SW 11/1/1.-E. C. Ward, Monmouth, new A lic. SW 11/1/9.—Lion Farmkit, Ltd., Abergavenny, new B lic. 1 veh, granted, goods for associated companies, any distance.

EASTERN

Applications

E 6.2/1.—S. Neal, Ltd., Sutton Bridge, new A c. 2 webs. (8½): refragerated containers (4½). mainly goods requiring transport in refrigerated containers: East Coast, Midlands and London areas. E 6/2/2.—J. A. Trible, Isle of Ely, A var. add I

E 0/2/2/-3, A. and H. Willsmore, Southend-on-sca, A var. add 1 veh. (4½1). E 6/2/4---R. H. Argent, Wethersfield, new B lic. 1 veh. (2½1), agric, produce and requisites, and livestock within 50 miles.

-Prime Godfrey's Sons, Ltd., Swavescy. B var. 1 veh. (3140, collection and delivery of goods for licensee's trunk services within 30 miles.

WESTERN

Applications

Applications

W 7.2.1.—Agnesbury Transport, Ltd., A var. add 6 veh. (19t 12c) mainly agric, goods and requisites, and provisions; normally within 150 miles; other goods within 30 miles. Now on B lic.

W 7.2.2.—C. A. Hes, Bristol, A var. add 1 art. (5540 mainly agric, requisites, building mats., metal drums, metals and goods for Showerings of Shepton Mallet, normally within 200 miles,

W 7.2.3.—Parcel Delivery Service, Ltd., Cheltenham, A var. add 2 arts. (13t), mainly goods for Neata Products (Cheltenham), Ltd.; mainly Northern England and Scotland. 1 art. now on contract A lic.

A lic. W 7:24—R. G. Morcom (Transport), Ltd., Tregoney, A var. add 1 T. Ot 16c), mainly stone, clay, and tnr. Midlands and South Wales. The following 28 applicants seek B licences for

51 vehicles at present on contract A licence, to carry "Goods for English China Clays, Ltd., its subsidiary and associated companies, within 100

W 7/2 5.—L. G. Adams, Barnstaple, 1 T, (3½t) new B lic. W. 7/2 6.—D, E, Symons, Bodmin, 5 T. (16t 2c)

new B lic. W 7:2.7.—J. E. Grose, Buckshead, 1 T. (4t) new

B lic. W 7.2.8.—H. Allan, Foxhole, 4 T. (12t 2c) new

B lic. W 7 2 9.—R. G. Hawke, Polgooth, 2 T. (7t) new

lic. W 7/2/10,-W. H. Durant, St. Austell, I T. I₁() new B lic.

W 7/2/11.—R. P. N. Loosley, St. Austell, 1 T. (3):41 new B lie. W 7/2/12.—Kestle and Read, Stenaices, 1 T. (3):40 new B lie. W 7/2/13.—E. K. Grose, Buckshead, add 2 T

17c) B var. V 7/2/14.—M. C. Haulage, Ltd., Bugle, add 2 . (71 16c) B var. W 7/2/15,—F. Tucker, Exeter, add 5 T. (211/20) var. on contract to The Western Quarry Sales,

W 7/2/15.—F. Hucker, Excer., and 5 1, (21%)
B var. on contract to The Western Quarty Sales,
Ltd.
W 7/2/16.—E. Hooper, Fraddon, add 1 T. (30)

W 7/2/17.—J. W. Hyne, Loddiswell, add 2 T W 7/2/17.—J. W. Hyne, Loddiswell, add 2 T (71 4c) B var. on contract to Western Quarry Sales, Ltd., and South Hams Quarry and Concrete s., Ltd. W 7/2/18.-G, Julian, Nanpean, add 1 T

W 7/2/18- G. M. and T. J. Stoneman, W 7/2/19.—F. G. M. and T. J. Stoneman, Nanpean, 3 T. (9t 11c) B var. W 7/2/20.—R. D. May, Polgooth, add 1 T. (3t 16c) B var. W 7/2/21.—C. Trethewey, Roche, add 1 T. (10t 19c) B var. (2t 19c) B var. W 7/2/22.—G. Truscott, Roche, add 1 T. (3t 19c)

B var. W 7/2/23.—S. Allen, St. Austell, add 1 T. (3t 19c) B var. W 7/2/24.—N. J. Grose, St. Austell, add 1 T.

(3%1) B var. W 7/2/25.—W. H. Grose, St. Austell, add 1 T. 18c) B var 26.-P. Matthews, St. Austell, add 2 T.

9e) B var. V 7/2/27,—A, J. Kent, St. Dennis, add 1 T.

W 7.2/27,—A. J. Kent, St. Dennis, add 1 T. (3t. 17e) B var.
W 7/2.28,—H. V. J. Rawling, St. Mawgan, add 1 T. (2t. 16e) B var.
W 7.2/29,—S. W. L. Screech, Saltash, add 1 T. (4t. 4e) B var, on contract to Hoare Bros., Ltd., W 7/2.30,—A. H. White, Stenalees, add 2 T.

W 7/2/30.—A. H. White, Stenatoes, and 2 i (6/5) B var. W 7/2/31.—A. R. Haddy and Son, Ltd., Tide-tord, add 2 vehs, (7t lc) B var. W 7/2/32.—A. J. Deeble and Son, Upton Cross, add 4 T. (11t 14c) B var. on contract to Hoare

All above, except where otherwise stated, ontract to English Clays Lovering Pochin

Decisions
W 6/12/5.—Edwards Transport (Lydbrook), Ltd.,

W 13/12/5.—Edwards Transport (Lydbrook), Ltd., A var. 1 veh. granted.
W 13/12/5.—Edwards Transport (Lydbrook),
Ltd., A var. add 7 vehs. from West Midlands.

refused. W 8/11/8.—R. McLindsay, Lydiard Millicint, A r. I veh, granted. W 8/11/4.—J. T. Carpenter and Sons, Crudwell.

w a 11/4 B. L. Carpener and sorts, Cludwel, V 20/12/6.—J. Parsons (Glos), Ltd., new B lie. Il vehs, from contract A lie, granted. W 20/12/5.—Unifever, Ltd., Bristol, new B lie. 4 vehs, granted.

METROPOLITAN

Applications

M 8/2/1.—E. J. Lyons, Enfield, new A lic. I eh (3½) goods, mainly ferrous and non-ferrous

M 8/2/1,—E, J. Lyons, Enfield, new A lic, 1 veb (3/5/6) goods, mainly (errous and non-ferrous metals, within 250 miles.

M 8/2/2,—* Maynor* Transport, Ltd., Edgware, new A lic, 7 vans (13t 18c) mainly musical instruments and associated goods, G, B,

M 8/2/3,—S, A. Flint, Ltd., W.C.2, a var. add 2 veb. (8t) fruit and vegetables. England and Wales.

2 veh. (8t) fruit and vegetables. England and Wales, B var, add 2 veh. (7t) fruit, vegetables from London Docks, railheads and Tilbury to markets and railheads within 25 miles of Covent Garden. M 8/2/4.—C. Madgweck and Son, Guitford, A var, add 2 veh. (6t 12c) general haulage including farm and market garden produce; London, Surrey, Bournemouth, Southampton and Home Counties. M 8/2/5.—E. R. Taylor (Transport), Ltd., E. 12. A var, add 2 veh. (4½) g.g. within 100 miles. M 8/2/5.—C. E. White, Hayes, A var, add 1 T. (41) building and road plant and mats., machinery and steel; within 100 miles. M 8/2/7.—M.T.D. 14d. S. W. H. new B. lie. L. M. 8/2/7.—M.T.D. 14d. S. W. H. new B. lie. L.

(41) beinding and road pram and steel; within 100 miles.

M 8/2/7.—M.T.D., Ltd., S.W.11, new B lic. 1 van (It 14c) furniture and g.g. 150 miles.

M 8/2/8.—G. E. Cloke, Ltd., N.W.10, B var. add 3 T. (12%). Bulk solid fuel within 40 miles.

M 9/11/10.-P. F. Legnon, Forest Gate, new B M 9/11/4.—W. W. Tull, new A lic. 1 veh

M 9/11/9.—Industrial Interior Suppliers, Ltd., ower Morden, new B lic. 2 veh. withdrawn.

M 9/11/11.— J. Lyons and Co., Ltd., W.C.2, new lic., long-dist, app, withdrawn. 3 veh. (91-1) for ceal delivery granted.

16/11/1.—H. O. Baker and B. Henning, King-ston-upon-Thames, new A lic. I veh, withdrawn. M 16/11/2.—A. E. Jones, E.17, new A and B lics. 2 vehs, withdrawn. M 26/10/3.—F. V. Carroll and Son, Ltd., Isle-worth, A var. add I veh. refused.

SOUTH EASTERN

Decisions

SE 8/12/6.—W. F. Bush and Sons, Ltd., Fern-own, B var. 1 veh. (3½) granted.

SE 24/11/11.-J. L. Weston, Ltd., Wadhurst. SE 24/11/1.—J. L. Weston, Ltd., Wadnurst. ew B. lic. refused.

SE 24/11/2.—P. and P. Transport, Ltd., Worthig, A lic. app. withdrawn.

SE 24/11/a app. withdrawn, SE 27/10/9 S. R. and A. H. Madsen-Mygdal, umnor, B lic, var. withdrawn, SE 27/10/4 - S. A. Batchelor, Kings Somborne, sew A lic, 1 veh. refused.

SE 27/10/3.—Direct Roadways, Ltd., Botley. new A lic. withdrawn. SE 29/9/7.—William Hampton, Ltd., Rochester. B var. add 4 veb. granted.

Registrations Drop Back

November Figures

THE rising trend in registrations of new commercial vehicles, which started last September and continued through the following month was, however, not maintained in the month of November. The total for November was 23,709 registrations, 228 less than in the previous month and 8.510 less than the highest monthly total of 31,219, which was attained in

The total of new goods vehicles registered in January-November at 209,818, however, was 32,810 higher than in the comparable period of 1959, 49,480 more than for 1958, and 79,324 greater than in the same period of 1957.

In the first 11 months of 1960 the

NEW REGISTRATIONS-NOVEMBER, 1960

Туре					Petrol	Oil	Electric	Nov.	JanNov
Hackneys			1,0	,.	40	385	-	425	5,949
Local Authorities (wa Tower wagons		and	clean	sing)	381 1 5 12,795	160 13 5 5,838	- 1 1 165	544 14 11 18,798	5,257 6 173 83 204,299
Total Goods		1=		-1	13,182	6,016	169	19,367	209,818
Exempt vehicles Tractors Agricultural engines	(£2 c	lass)	11	11	1,244	350 56 2,125	89 - 13	1,683 56 2,178	14,631 587 40,491
Grand Totals			44		14,506	9,032	272	23,709	271,476

number of new commercial vehicles on the road were at a significantly higher figure than for the whole of 1959-271,476 compared with 258,100. Details appear in the accompanying table.

The aggregate figure for all vehicles,

including cars and motorcycles, registered during November was 81,852, bringing the total for the year up to 1,303,711. At the end of last September there were nearly 91m. vehicles on the roads of Great Britain.

Planning for Profit

A Commer 15-cwt. chassis forms the basis of this Smith's Fishvendor mobile fish shop, operated by Modern Fisheries, 24 High Street, Wellington, Somerset. The equipment includes a Thermowell hotwater wash basin unit, and a Carrifreeze refrigerated cabinet for storing fresh fish. A self-service sundries cabinet is provided.



Keep Depreciation in Perspective

THE total expenditure involved in operating a commercial vehicle can be conveniently segregated into five items of standing costs (licences, wages, rent and rates, insurance and interest), and five running costs (fuel, lubricants, tyres, maintenance and depreciation). As I emphasized last week, however, it must always be remembered that these 10 items remain interrelative. Otherwise disappointment could arise as the result of the experience of effecting economy in one item, only to find subsequent increases in cost elsewhere.

Depreciation and maintenance are two such items which are closely rated to each other, and, to some extent, with interest on the initial capital outlay. Inquiries are often received from readers indicating that they are proposing entering into haulage or passenger operation with a used vehicle which they have purchased—or, more prudently, which they are considering purchasing—at what they consider to be a modest price. Because of this low initial outlay they then make the unfortunate mistake of believing that they would be in a more favourable position, economically, than their competitors operating more modern fleets, to the extent that they would be able to offer customers more attractive rates.

There are two fallacies in this attitude. As already explained, costs are interrelated and experienced operators would be well aware that even if there were a saving by the adoption of this policy in respect of depreciation and interest charges, there would inevitably be a substantial addition to the average cost of maintenance as applied to more modern vehicles.

THE second fallacy is that any apparent saving on depreciation costs would be conditional on unlikely circumstances. When the costing of commercial vehicle operation is undertaken there is an implied assumption—generally accepted but seldom stated—that continuity of the transport undertaking or department is intended. Whilst it is necessary to make estimations of the probable life of a vehicle in terms of mileage or years, it would only be in exceptional circumstances where the life of the undertaking had similarly to be estimated or alternatively was known to be of comparatively short duration. An example of this last situation could be where vehicles are purchased specifically for a short-term civil engineering contract.

In the vast majority of cases this would not apply and it would be the transport operator's responsibility to continue to provide, and possibly expand, whatever services he had organized. It therefore follows that replacement of vehicles is an inherent factor to be taken into consideration when calculating operating costs. The method adopted in this series of articles and in "The Commercial Motor Tables of Operating Costs" for calculating depreciation is on a mileage basis. The mileage chosen for a quantity-produced 7-tonner, for example, is 150,000 as the probable economical life of this particular type of vehicle In order to obtain the depreciation cost per mile, the cost of the original set of tyres is first deducted from 1836.

Policies Offering Substantial Economies in One Item of Operating Cost Can Prove Ill-Advised if the Effect on Other Expenditure is Ignored

the initial price of the vehicle. A further deduction is then made in respect of the ultimate residual value and the balance then divided by 150,000 to give the required cost per mile.

In practice, where an operator did in fact commence with a new 7-tonner and maintained an accurate costing system, he would transfer at weekly or other regular intervals the appropriate accumulation of depreciation costs, relative to the mileage run, to a sinking fund. It would follow, therefore, at the half-way stage, namely 75,000 miles, that he would have accumulated in the sinking fund half the balance to be written off.

Consider now the position of a newcomer to haulage who expected to reduce his operating cost by purchasing a used vehicle. Assuming it was just such a 7-tonner which had already run 75,000 miles. It could be that the price he paid would be approximately half the original cost. Superficially it would seem that, by calculating depreciation in a similar manner as before, but commencing with the new and lower initial price, the depreciation cost per mile would be lower.

Two replacement policies would generally be available to this type of operator. If he had no ambition eventually to own and operate a fleet of new vehicles, he could continue to purchase vehicles half-way through their useful life. Where this policy did in fact apply it will be obvious that the balance to be written off as depreciation—albeit a smaller amount than would apply to a new vehicle—would then have to be divided by 75,000 and not 150,000 miles. The resulting depreciation cost per mile would then be similar to that applying to a new vehicle. No advantage, therefore, would be derived by way of a lower depreciation cost per mile through operating a used vehicle purchased at a price lower, relative to mileage run, than the initial cost when new.

Alternatively, if the newcomer purchased a used vehicle initially only as an interim measure until such time as he could afford to obtain a new vehicle, he would be compelled to set aside even larger amounts than the operator of a new vehicle. He would, in fact, have to provide an additional sum equal to the amount which would already have accrued in the sinking fund of the original operator from the time the vehicle was purchased new until it was sold to the newcomer.

It is also significant that the largest operators with experience and costings appropriate to their size not only prefer to operate new and modern fleets but have, of recent years, increasingly adopted policies of even more frequent replacement. Complete

(Continued on page 93)



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ALTERNATIVE DEPRECIATION CALCULATIONS Relative to a 15-cwt. Van (With Oil Engine)

MILEAGE			METHOD (Pence per Mile)			
Per Week	Per 50- Week Year	Per Five Years	A Mileage (75,000)	Time (Five Years)	C Mileage and Time	C.M.
100 200 300 400 500	5,000 10,000 15,000 20,000 25,000	25,000 50,000 75,000 100,000 125,000	1.64 1.64 1.64 1.64 1.64	4.91 2.45 1.64 1.23 0.98	3.28 2.04 1.64 1.43 1.32	1.97 1.80 1.64 1.64

and accurate statistics are proving that when such a policy is applied, not only is there little or no increase in operating costs, but there is the positive advantage of greater earning capacity of the vehicle because of its increased availability for service.

I now propose to give an example of the effect of alternative methods of calculating depreciation as applied to a 15-cwt. van, fitted with oil engine. The variation will be relative to the adoption of time or mileage as a basis of calculation. No attempt will be made to adjust the cost of depreciation year by year, or at other intervals, relative to the decreasing value of the vehicle. Whilst this may be necessary for purposes other than obtaining the operating costs of the vehicle, so as to determine the assets of a business at any given time, the introduction of this variation can only result in further complication to little or no purpose when applied to the actual operation of a vehicle. It would obviously be unrealistic to quote charges, for example, varying according to the age of the vehicle provided for the customer, quite apart from the restrictions it would impose on the flexibility of traffic arrangements.

THE first of the five items of standing costs of this 15-cwt. van, namely licences, would amount to £20 per annum, the equivalent of 8s. a week on the basis of a 50-week year. This allows for two weeks a year when the vehicle may be off the road for major repair or driver's holidays. The total cost of wages will be reckoned at £9 14s. 8d. This includes additions to the basic wage applicable to an adult driver in Grade I areas as laid down by the Road Haulage Wage Regulations R.H.(70) to allow for National Health and voluntary employers' liability insurance contributions. An adjustment has also been made to allow for two weeks' holiday with pay.

Rent and rates in respect of garaging the vehicle are nominally assessed at 7s. 8d., whilst vehicle insurance is reckoned a further 9s. 7d. a week. This latter figure is inclusive of the recent increases in commercial vehicle premiums. With an initial cost of £630, interest charged at a nominal rate of 3 per cent. would cost 7s. 6d. a week, giving a total standing cost of £11 7s. 5d. a week. Where the miles per week run averaged 400 the standing cost per mile would be 6.82d. Correspondingly at 200 miles a week the cost would be 13.64d. and at 100 miles a week 27.29d. per mile.

Although remarkable economies have been reported by operators of 15-cwt. vans fitted with oil engines, it will be assumed that in this instance the average rate of fuel consumption is conservatively estimated at 33 m.p.g. With fuel purchased in bulk at 3s. 10\frac{1}{2}d. per gallon, the resulting fuel cost per mile will be 1.41d. Lubricants add 0.20d. per mile and tyres 0.43d. This latter calculation is made on the basis of an expected mileage life of 20,000 from a set costing £45.

Maintenance is calculated to cost 0.84d. per mile and depreciation 1.64d. A mileage life of 75,000 is assumed for this 15-cwt. van whilst the method of calculating depreciation is as already described. The total for these five items of running costs is thus 4.52d., giving a total operating cost of 11.34d.

In contrast to the corresponding calculation of the standing cost per mile at 100 and 200 miles a week, respectively, it is necessary to make adjustments to the separate costs of maintenance and depreciation before determining the appropriate running cost per mile. Because some of the maintenance tasks, such as washing and greasing, are generally undertaken weekly or at other regular time intervals, the maintenance cost per mile increases at lower overage mileages a week. For the sake of simplicity, however, such adjustments are made in "The Commercial Motor Tables of Operating Costs" only within

the limits of the lower ranges of weekly mileage. At 200 miles a week the maintenance cost of this 15-cwt. van is therefore estimated to be 1.20d. increasing to 1.70d. at 100 miles per week. Although, as already explained, depreciation is basically calculated relative to mileage, it is appreciated that when the average mileage is particularly low some allowance must be made for possible obsolescence. The depreciation cost per mile in this instance is therefore adjusted to 1.80d. per mile at 200 miles a week and 1.97d. at 100 miles a week. The addition of these adjustments gives a total running cost per mile of 5.04d. at 200 miles a week and 5.71d. at 100 miles

a week. Added to the appropriate standing costs, the total operating cost per mile is thus 18.68d. at 200 miles a week and 33.00d. at 100 miles a week, compared with 11.34d. per mile as already calculated when averaging 400 miles a week.

In the accompanying table the variation in mileages is, for convenience, set out alternatively per week, per 50-week year and per five years. The weekly mileages range from 100 to 500 in steps of 100. The results obtained from alternative methods of calculating depreciation are then shown.

BASED on the estimated mileage life of 75,000 for this 15-cwt. van, the depreciation cost per mile as shown in column A is given without any adjustment. It will be seen that if the original estimate of 75,000 miles as the vehicle life is in fact adhered to, then the van will have to be operated for 15 years when the weekly mileage averages only 100. Whilst this may well be achieved in some instances, the attractiveness of the van, as well as other factors, may make the operation of this some adjustment to the basic calculation of 1.64d, per mile would be advisable when the mileage was exceptionally low.

If, however, depreciation is calculated on a time basis—and in this instance a period of five years is accepted—wide variation in the resulting cost per mile is obtained. Thus at 100 miles a week the cost of depreciation per mile is more than five times the corresponding cost when the vehicle averages 500 miles a week. At 300 miles a week the cost per mile, when calculated on a time basis, coincides with the amount obtained when a similar calculation is made on a mileage basis. This situation arises because the mileage run, when averaging 300 miles a week, over a period of five years happens to be the same as the basic estimated mileage of the van, namely 75,000.

The cost shown in column B appropriate to weekly averages of 400 and 500 miles could only be obtained if the original basic estimated mileage life of the vehicle (75,000) proved too conservative, since over the chosen five year period 100,000 and 120,000 miles respectively would then have been run.

Some operators prefer to halve the amount to be written off as depreciation and then calculate the depreciation cost per mile equally on both a time and mileage basis. The results obtained from this method are shown in column C. Although the variation in the cost per mile from 3.28d, at 100 miles a week to 1.32d, at 500 miles a week is substantially less than the corresponding variation in column B, there is still a difference of over 100 per cent, between the maximum and minimum costs.

Under exceptional conditions, when either low or high mileages were run, it must be admitted that any one method of calculating depreciation cannot be appropriate under all circumstances. Nevertheless it is important that a major objective in commercial vehicle costing-namely simplicity-must not be lost sight of. It is for this reason that the method by which the results obtained in column D has been adopted in this series of articles and in "The Commercial Motor Tables of Operating Costs." The depreciation cost is first calculated on a mileage basis appropriate to the type of vehicle-75,000 in the case of this 15-cwt. van. An average weekly mileage appropriate to the category of vehicle is then chosen as a standard below which successive additions of 10 per cent, are made for each mileage group. Thus, in this particular example, 300 miles is taken as a standard weekly average, with 10 per cent, added at 200 miles a week and 20 per cent, at 100 miles a week. Whilst it is agreed that this formula will still not meet every set of circumstances, it is considered to be a fair every set of circumstances, it is comparative simplicity in S.B.

B 39

Self-energizing Disc Brake

PATENT No. 857,674 discloses a design for a disc brake giving a degree of self-servo action, through motion of the disc, (Automotive Products Co., Ltd., Tachbrook Road, Leamington Spa.)

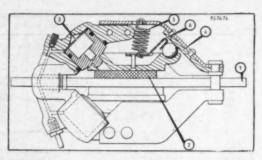
The drawing, which is a plan view partly in section, shows the disc (1) between friction pads (2), one on each side. The pads are brought into action by hydraulic cylinders (3).

As the cylinders are placed at an angle, each pad is moved obliquely towards the disc, the roller at the end

of the plate bearing on the inclined surface (4) to keep the pad parallel with the disc. On application of the brakes, the drag applied to the pads clockwise rotation of the discs tends to urge

the rollers down the inclined surfaces, and so increase the pressure on the pads.

Helical springs (5) retract the friction pads and smaller leaf-springs (6) keep the rollers in position.

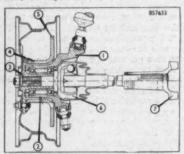


pin (2). The pivot pin is of some length and is supported by a cross-member shown sectioned at 3.

The sole spring employed is a rubber block (4), located between the swinging member and the chassis frame, and surrounded by a box section which, in the event of failure of the rubber, could temporarily support the load. rubber block is simple to replace; all that has to be done is to remove the single screw (5).

DISC BRAKES ON FRONT-WHEEL DRIVE

DISC brakes used on front-wheel-drive vehicles often have the discs inboard, mounted on the drive shafts. This means that the universal joints have to withstand the high torque of braking. To avoid this is the aim of a new layout shown in patent No. 857,633. (Morris Motors. Ltd., Cowley, Oxford.)



The drawing shows a front hub and its driving mechanism. The steering-swivel bracket (1) is integral with the hollow stub axle (2). The hub (3) runs inside the stub axle on ball bearings and carries an end flange to which the wheel is attached. From the flange extends a tubular portion (4), which is turned outwards to form the brake disc (5). All the braking stresses are thus contained in the hub assembly.

The constant-velocity universal joint (6) is a Rzeppa type, whilst the inboard one (7) is a rubberized Hooke's type. This joint has been covered by an earlier patent numbered 808,807.

AUXILIARY DRIVE ISOLATOR

PACENT No. 857,809 refers to vehicles having auxiliary mechanisms that have to be driven during running. Examples given are concrete mixers and generators, where it is said that the added inertia of the revolving parts interferes with gear-changing when the drive is taken from the vehicle engine. The patent deals with a means of preventing this. (E. Twemlow, J. Mills and Fodens, Ltd., Elworth Works, Sandbach. Cheshire.)

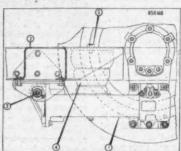
The drawing shows a travelling concrete mixer in which the drum (1) is

rotated while running by a power take-off (2) on the gearbox. It is the inertia of this drive that causes gear-changing troubles, and the remedy adopted is to incorporate a magnetic clutch (3) energized by the vehicle battery.

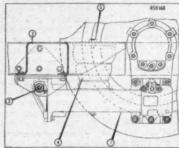
The electric circuit includes a switch (4) operated by the clutch pedal. When the clutch is disengaged, the circuit is broken and the auxiliary drive momentarily disconnected from the

ALL-RUBBER SUSPENSION

A N INDEPENDENT suspension system using only rubber for the resilient member is shown in patent No. 858,168. It is intended mainly for the rear wheels of a vehicle having frontwheel drive only. The aim is to permit ample room between the rear wheels so that a low floor can be used. (Dennis Brothers, Ltd., Woodbridge Works, Guildford, Surrey.)



The drawing is a side elevation of one of the suspension assemblies. A stubaxle unit is carried by a swinging Lshaped structure (1) pivoted about the

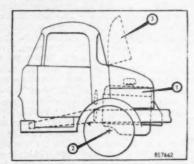


A NEW TYRE

PATENT No. 857,379 discloses new materials for the construction of tyres. The new tyres are said to give much quieter running and a softer ride than those made of conventional rubber. The specification, which is highly technical chemically, comes from the Goodyear Tire and Rubber Company, Akron.

BONNET BEHIND THE CAB

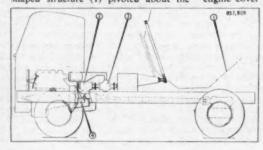
FORWARD-CONTROL cab in A which access to the engine is obtained from behind the cab is described in patent No. 857,662. The main aim is to improve the accessibility. (Vauxhall Motors, Ltd., Luton, Beds.)



Referring to the drawing, it will be seen that the greater part of the engine (1) is behind the front axle (2). engine cover (3) is hinged at the top to

swing upwards and may also carry the sides. Alternatively, the sides may be separate pieces, hinged at the front edge.

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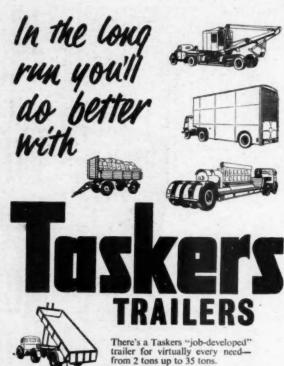
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Used Goods Vehicles (contd.)

CAR MART, LTD.

AUSTIN COMMERCIAL VEHICLE DISTRIBUTORS FOR LONDON AND ESSEX. SIX MONTHS' GUARANTEE WHERE STATED.

1955 AUSTIN 3-ton B.M.C. diesel normal-control boxvan, guaranteed, £445.
AUSTIN A152 15-cwt. Omnivan, £295.

1953 AUSTIN 3-ton Luton van (approximately 1960 AUSTIN A35 van, guaranteed, £325.

1958 AUSTIN 7-ton B.M.C. dieset long-wheelbase container body boxvan (approximately 650 cu.

11.5 guaranteed, £895.
1959 AUSTIN A152 13-seater Omnicoach, guaranteed, AUSTIN 3-ton B.M.C. diesel normal-control track, guaranteed, £425.

CAR MART, LTD..

WELSH HARP. EDGWARE ROAD, N.W.9.

1956 AUSTIN song-wheelbase tipper, B.M.C. diesel engine, new tyres, 6225.
1955 AUSTIN 5-ton track. P6 diesel, good condition, £195. Edgware 2572.

MARSTON MOTOR CO., LTD.,

SEVEN SISTERS ROAD, TOTTENHAM, LONDON, N.15. Phone, Stamford Hill 8000.

MAIN retail dealers for AUSTIN commercial vehicles and sole distributors for Thornycroft commercial vehicles for London and Home Counties morth of the Thames.

OFFER FROM STOCK:-

NEW LUION VANS

FOR IMMEDIATE DELIVERY

NEW AUSTIN new-type 30-cwt. diesel 550-cu.-ft. Luton TEW AUSTIN 5-ton 1,700-cu-ft. diesel Luton van

TEW AUSTIN 3-ton 1.400-cu.-ft. Luton van.

NEW AUSTIN Omnicoach, in primer,

NEW AUSTIN 3-ton normal-control diesel drop-side

MASKELL'S (BRIXTON), LTD.

1960 AUSTIN 30-cwt, diesel van, heater and many 1956 AUSTIN 30-cwt, diesel van, well maintained and section, condition, E275.
297 BRIXTON RD., S.W.9. Brixton 0111, 896-208

L. F. DOVE (C.V.), LID.

1959 AUSTIN 7-ton short-wheelbase diesel chassis-1956 AUSTIN 7-ton short-wheelbase diesel chassis-1956 AUSTIN 3-ton diesel drop-side truck, com-letely overhauled, £195. 1958 13-cwt, Omotivan, green, £275.

above vehicles offered with three months' guarantee 1957 AUSTIN A35 van. £185.

L. F. DOVE (C.V.), LTD., 98 LOWER ADDISCOMBE ROAD, CROYDON.

Addiscombe 3131 (five lines).

L OW mileage 6 x 4, unregistered, recovery power winch, any trial, £250 or offer. A.A.I. Engineering Co. Finchley, N.12. Hillside 9589.

DAWNIER MOTORS. LTD. EWELL BY-PASS, SURREY. Ewell 2382.

NEW AUSTIN 30-cwt. truck, immediate delivery.

1957 AUSTIN 15-cwt. van. £235. 1956 AUSTIN 5-cu.-yd. diesel tipper, drop side.

HARLOW, ESSEX. Phone, Potter Street 121.

PARSONS AND PARSONS (GARAGES). LTD.

1956 BEDFORD 5-ton petrol metal-body tipper. 1954 BEDFORD 5-ton tipper, petrol, £350. 1953 BEDFORD 5-ton tipper, petrol, £325. 1957-56-54 BEDFORD CA vans, from £200. 1956 BEDFORD 30-cwt. van. £395.

1959 BEDFORD Utility Busette, £425. 1958 BEDFORD 15-cwt. milk float, £295.

USED BEDFORDS

No. 1,260 cat ft., 200 petrol, 179-in, wheelbase, 8.25 x 20 petrol, 179-in, wheelbase, 8.25 x 20 petrol, 179-in, wheelbase, 8.25 x 20 petrol, 200 diesel, 823.

EW BEDFORD 3-ton normal-control 143-in-wheelbase truck, 200 diesel, 893.

EW BEDFORD 15-cwt. 1961 Model CAL van. heavy-dut tyres and springs, 2480.

EW BEDFORD 15-cwt. CAL Utility Busette, white per second of the petrol 120-in-wheelbase telehoist tipper, 9.00 x 20 12-ply 12 120-in -wheelbase Telehoist tipper, 9.00 x 20 12-pb;
yres, £1.472 13s.

1EW BEDFORD 7-ton (new cab) 167-in -wheelbase
forward-control chassis-cab, 300 diesel, £1.247.

1EW BEDFORD 10-ton tractor unit, Scammell
coupling, 2-apeed act, £1.357.

1EW BEDFORD Walter 10-cwt. pick-up, 162-gu.-in.
engine, £627; choice of four.

FOR YOUR NEW OR USED BEDFORD BACKED BY SEVEN DAYS A WEEK AFTER SALES SERVICE. OFFER. SUBJECT TO REMAINING UNSOLD. THE FOLLOWING:— NEW BEDFORDS.

PARSONS AND PARSONS (GARAGES). LTD. THE BEDFORD MAIN DEALERS.

RLC BEDFORD. 4-wheel drive, chassis and cab only, practically unused, mileage only 700, fitted 11.00 x 20 Track Grips, new price £1,200; offered at SWORDER MOTORS (EXPORTS), LTD., Loudwater, High Wycombe. Phone, High Wycombe 4078.

BARTON MOTORS (PRESTON), LTD.,

SEPTEMBER. 1957, BEDFORD 6-ton, forward control.

1958 BEDFORD (petrol) 5-ten forward-control plat-25-CWT, BEDFORD van, 1955, £250.

1957 BEDFORD 6-ton long-wheelbase platform truck, fitted with Bedford diesel engine. 3-month STORMONT ENGINEERING CO., LTD., Tunbridge Wells, Phone 20323. 896-142

PHONE. RIVERSIDE 4111.

320 KING STREET, HAMMERSMITH, LONDON, W.6.

186 EAST BARNET ROAD, NEW BARNET.

SALES STAFF IN ATTENDANCE UNTIL PHONE. BARNET 1066.

TEW BEDF JRD 10-, 12 and 15-cwt. short-wheelbase and long-wheelbase vans.

TEW BEDF JRD 12-seater conversions; most models 1960 BEDFORD 4-ton normal-control diesel 1,100-cu.
PART-EXCHANGES? Certainly! Hire-purchase terms.

EW BEDFORD 5-ton normal-control long-wheelbase chassis-cab, diesel. EW BEDFORD TK 7-ton long-wheelbase truck. IEW BEDFORD IK 7-ton short-wheelbase tipper 6-cu,-yd steel body, Teleholst gear. IEW BEDFORD TK 10-ton tractor unit.

NEW BEDFORDS FOR IMMEDIATE DELIVERY. JEW BEDFORI K 5-ton long-wheelbase truck

NEW BEDFURD 5-ton normal-control diesel, 1,200-cu., ft, pantechnicor, composite body with rear low-unding well, walk-in tailboard, half doors, 4 ft. 6 in, Luton, price, in primer, £1,545. Immediate delivery, A LSO BEDFORD TK chassis with composite or alloy bodies, favourable delivery, quotations sent on request.

MAIN BEDFORD DEALERS BEDFORDS ARE OUR BUSINESS.

BEDFORD LAWSON PIGOTT MOTORS. LTD..

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1955 BEDFORD 10-ton petrol tractor with 22-ft.
1959 straight frame trailer, £325.
1959 sion wheelbase BEDFORD Utilabrake conversion, heater, head lining, etc., £465.
1952 good tyres and ready for immediate use, £150.
896-292

71 THE WICKER, SHEFFIELD, 3. Phone 29281.

 $B^{\rm ENTLEY}\ B^{\rm ROS.\ (SHEFFIELD)},\ L^{\rm TD..}$ VAUXHALL AND BEDFORD MAIN DEALERS.

1955 BEDFORD 5-ton tipper, short-wheelbase, petrol engine, newly painted, £295.

ISHERWOODS GARAGES, LTD., 110 Buxton Rd., Stockport. Phone, Stockport 5083.

896-270

1957 BEDFORD 5-ton dicael long-wheelbase tipper, 300 engine, specimen vehicles.
1954 BEDFORD 5-ton long-wheelbase bulk body coul tipper, P6 engine, £325.
CWS MOTORS (HILL TOP), LTD, 127 Hill Top, West Bromwich. Phone, Wednesbury 0470, 896-240

1960 BEDFORD 3-ton dieset 4-cylinder, 143-in. be 6 ft. 6 in. by 6 ft. 6 in., low mileage, beautiful condition, dark blue, £975 Phone, Cli 8604. 896-342

ORMSKIRK MOTORS, LTD., MAIN VAUXHALL-BEDFORD DEALERS, COUNTY ROAD, ORMSKIRK.
Phone, Ormskirk 2551-2.

19 axle.
1957 user only, complete set of new 9.00 x 20 tyres recently fitted, this vehicle is in excellent condition, £675.
1958 BEDFORD 10-ton tractor unit, one owner only, cammell coupling, diesel, 2-speed axis, £1951 BEDFORD 5-tonner, F6 diesel engine, in good condition throughout, £25.

ORMSKIRK MOTORS, LTD.

NEW TK BEDFORD 7-ton drop-side tipper, 2-speed
NEW BEDFORD TK 7-ton, 167-in, wheelbase, 2-speed
NEW BEDFORD TK 10-ton tractor unit, diesel, 2-speed
asle,

AND L. VEHICLE SUPPLY CO., 27-41 Gravel
A. Lane, Salford, 7. Phone, Man:hester, Bla 1511.
896-272

1957, October, BEDFORD, diesel 300 engine, 7-ton

HIRE-PURCHASE TERMS ARRANGED. HOWARD 4184.

IMMEDIATE DELIVERY.

1957 5-ton light-alloy boxvan, 680 cube, 3-way loader
1955 BEDFORD 3-ton boxvan, Perkins P4, 475 cube
one owner. 1955 one owner, Ston boxyan, petrol. 600 cube. one owner, good tyres, excellent condition.

ENFIELD.

HUNTER VEHICLES, LTD., CROWN WORKS, 290 SOUTHBURY ROAD.

1956 BEDFORD 3-type tractor unit, Scaminell nitch, good condition, £445. Arnold 7771, 896-197

1956 BEDFORD 5-ton A-type platform, P6 diesel.

466-490 EDGWARE ROAD. LONDON. W.2. DR 7211. PADDINGTON 0022-8. 896-331

Hamilton Motors (London). LTD.

1954 BEDFORD 5-ton short-wheelbase tripper, 5 cu. 4, 8325.
1955 BEDFORD 7-ton U tipper, 4395.
1956 BEDFORD 7-ton R6 tipper, 2995.
1956 BEDFORD 7-ton R6 diesel tipper, long wheel-base, 6525.
1957 BEDFORD 7-ton alloy platform, Comet engine.
1954 BEDFORD, R6 diesek alloy platform 16 ft. 6. OUR showrooms are open until 6.30 p.m. daily and 5 p.m. Saturdays.

DLEASE note address of our additional premises:— 252 BELSIZE RD., N.W.6. Mai 0712.

955 BEDFORD 2-3-ton truck. £325. 956 BEDFORD 5-ton short-wheelbase tipper. £395. 954 BEDFORD 5-ton drop-sided truck, £345.

your inspection.

Make sure you inspect these before you make your purchase. A sample of our stock is as follows:

New BEDFORD for immediate delivery. CA vans. 15 Hawson and Tk models, etc.

1956 BEDFORD 25-cwt. Spuring van. radio, blue. 27

1953 BEDFORD 3-ton drop-side truck, heater, £295.

HAMILTON MOTORS (LONDON). LTD. THE MAIN BEDFORD DEALERS WE always have a comprehensive stock of the first-class Quality Tested and other BEDFORDS for

1951 BEDFORD artic. P6 engine, pole trails Garage, Filtwick Bedford, Filtwick 455.

DEDFORD Model RLHC 4 by 4 chassis and cab-unused delivered 1960, specification: petrol engine 300-cu-in, capacity, fin and tube radiator, 12.00 x 2 single tyres, frame side member flitch plates, addition, rear cross-members, very heavy-duty bumper and towin-hooks (some fitted with new 700-gal, drinking-water tanks) to be sold at reduced prices (these are not ex Mo.S.) Haulgo, Ltd., West St., Havant, Hants.

55-61 LONDON STREET.

1959 BEDFORD 6-ton short-wheelbase tippers, descibodies, choice of several from £825.

BEDFORD 7-ton R6 platform, excellent condition, £400.

MAIN DEALERS.

E. J. BAKER AND CO. (DORKING). LID. BEDFORD

1960, a 201 yes, ELIFORD 7-ton heavy-duty tipper, 9.00
1963, 201 yes, £1,150, 196 long-wheelbase HYD
1953, ELIFORD 5-ton P6 long-wheelbase HYD
HENRY EATON, LTD, 107 Palmerston St., Ancoats, Manchester, Phone, Ardwick 3146, 896-264

1956 BEDFORD P6 diesel, 5-ton long-wheelbas1955 BEDFORD 4-ton diesel extended chassis box1955 BEDFORD diesel 5-ton long-wheelbase platform
1954 BEDFORD diesel form surranged.
1954 BEDFORD diesel long-wheelbase, £225.
1955 BEDFORD, diesel 7-ton chassis and cab, £175.
1966 July, BEDFORD, 20-ton chassis and cab, £175.

SECOND-HAND vehicles:-1956 BEDFORD 7-ton diesel drop-side truck, £475. 1956 BEDFORD 7-ton square steel bodied tipper, good clean vehicle, one owner, painted green, MARTIN WALTER, LTD., St. George's Place, Center-bury, Phone 4282.

BEDFORD 4-ton normal control chassis-cab, petrol.

MARTIN WALTER, LTD., offer immediate delivery of the following:—

Belford TK 7½-ton chassis-cab, long wheelbase deset, 5-speed gearbox, 9-00 x 20-12-ply tyres.

Belford TK 7-ton chassis-cab, extra long wheelbase, dieset, 5-speed gearbox, 9-00 x 20-12-ply tyres.

Belford TK 4-ton chassis-cab, dieset.

THE BEDFORD CENTRE. LEIGHTON ROAD, LONDON, N.W.5.

WRITE, PHONE OR VISIT

MODEL AVAILABLE FOR DEMONSTRATION.

BACKED BY UNEQUALLED SERVICE AND SPARES FACILITIES BEDFORD RECONDITIONED ENGINES FROM STOCK.

OTHER MAKES AND MODELS ALWAYS AVAILABLE.

MANY OVERHAULED AND REPAINTED.

LARGE SELECTION OF CA VANS.

BEDFORD Worksbus; choice of two.

1966 BEDFORD 10-15-cwt. long-wheelbase van.

1955 BEDFORD 3-ton short-wheelbase perfor t-pper
1956 BEDFORD Utilabrake. 12-seater personnel
1959 BEDFORD Worksbus, excellent throughout
1955 BEDFORD Dormobile:
1959 BEDFORD 15-cwt. short-wheelbase van.

axie, 300 diesel.

New BEDFORD 1k 7-ton 167-in, drop-side, 2-speed axie, 300 diesel.

Lasting and diesel.

Lasting

JEW BEDFORD TK 7-ton 167-in. drop-side, 2-speed

NEW BEDFORD 10-12-cwt, and 15-cwt, long- and short-wheelbase vans. Short-wheelbase vans.

EW BEDFORD Workabus.

CARMO OF LONDON. THE LONDON CENTRE FOR NEW AND USED BEDFORDS IMMEDIATE DELIVERY

Used Goods Vehicles (contd.)

Used Goods Vehicles (contd.)

CAPITAL MOTOR CO., LTD., REMINGTON STREET CITY ROAD, LONDON, N.I. Phone, Clerkenwell 7456.

BEDFORD MAIN DEALERS.

BEDFORDS, 10-ton tractor unit, immediate TEW BEDFORD 7-ton forward-control standard tipper NEW BEDFORD TK 3-ton drop-side truck, immediate W BEDFORD 4-ton TK drop-side truck, immediate JEW BEDFORD 5-ton TK 151-in. wheelbase chassis-cab. mmediate delivery.
W BEDFORD 6-ton TK drop-side truck, immediate Lew BELFORD 7-ton TK 167-in, wheelbase chassis-delivery.

Lew BELFORD 7-ton TK 167-in, wheelbase chassis-cab, immediate delivery normal-control 143-in, wheel-base drop-side truck, immediate delivery.

1958 BEFFORD 5-ton forward-control diesel truck, 575.

rediate delivery of the above new BEDFORDS PLEASE phone Clerkenwell 7456.

CAPITAL MOTOR CO., LTD., Remington St., City Rd., London, N.I. 896-418

1953-4 Choice of three 7-ton REDFORDS. Perkins full maintenance particulars on application. £225 each. Phone, Lymm (Cheshire) 169.

1955 BEDFORD 7-ton forward-control short-wheel-base U-shape tipner, one owner, well main-tained and tyred, 6240. The Chatham Motor Co., Ltd., Railway St., Chatham, Kent, 41222.

1954 BEDFORD 7-ton forward-control long-wheelbase drop-side trusk, petrol, one owner, well maintained, good tyres, 6275. The Chatham Motor Co. Ltd.. Railway St., Chatham, Keni, 41242.

BEDFORD 6-yd. diesel tipper. Anthony hoist, one owner from new, first registered July, 1958, £495. Greenwich 5708.

1960 REDFORD diesel 4-ton forward-control long-wheelbase platform track, 5,000 miles, £685, Dawnier Motors, Ltd., Ewell 2382.

JESSUPS (ROMFORD). LTD..

THE BEDFORD MAIN DEALERS FOR YOUR NEW OR USED BEDFORD. SUBJECT TO REMAINING UNSOLD THE FOLLOWING

NEW BEDFORDS FOR IMMEDIATE DELIVERY.

10-TON articulated forward-control, 300 diesel, fitted with Scammell coupling gear.
7-tON forward-control extra-long drop-sided truck, 300 diesel, 2-speed axte, 900 x 20 tissed truck, 300 diesel, 2-speed axte, 900 x 20 tissed.
5-TON forward-control drop-sided truck, 300 diesel.

-TON normal-control drop-sided truck, 200 diesel. -TON normal-control 7-cu.-yd. doubte-drop-sided all-steel-bodied tipper, underfloor ram, 9.00 x 20 tyres to rear and spare, calibrated 2-speed axle.

FOR EARLY DELIVERY.

7-TON forward-control 7-cu-yd. single-drop-sided all-steel-bodded inport, 300 dissed, underfloor ram. 2-sepsed aske, 900 x 20 tyres to rear and spare (choice of two).

12-TON forward-control 350 diesel articulated, fitted Control of two and two control 200 diesel articulated, fitted piete with two control 200 diesel articulated, fitted piete with two control 200 diesel articulated, fitted piete with two control 200 diesel diesel articulated and cah, complete with two control drop-sided diesel truck, 14,000 miles only, £575,

HIRE-PURCHASE FACILITIES AVAILABLE. JESSUPS (ROMFORD). LTD., LONDON ROAD, ROMFORD, ESSEX. Phone, Romford 42424. 896-379

1957 BEDFORD 5-ton long-wheelbase truck. Bedford
1956 BEDFORD 30-cwt. 3-way loader van. in 1939
1956 sendition. £35.
1956 F. ft. 6 is. long with N.S. roller shutter, in
exceptional condition. £395.
1955 with N.S. roller shutter, unmarked condition.
£345. Edgware 2572.

1956 6-wheeler BEDFORD R6 engine, platform body, 2211, Northamptonshire. Phone, Rushden, 2211, Northamptonshire.

1955 7-ton BEDFORD, alloy platform, R6 engine. 896-455

1958 BEDFORD 10-12-cwt., in exceptionally condition throughout, choice of three throughout. Cavendish Rd. N Willesden 0046-8.

1958 BEDFORD diesel, wood fixed-side body, in clean condition, 1959. Parke House Garage. Melton Mowbray. Phone, Melton Mowbray 3722.

1959 BEDFORD tipper, Bedford diesel engine, the Proprietor, 14 Surrey St., West Bowling, Bradford, 5, 896-x1935.

1950 BEDFORD B.T.C. articulated platform vehicle, Mansfield Autos, Ltd., High Rd., Broxbourne, Herts, Hoddesdon 456°,

Used Goods Vehicles (contd.)

Bedford Wanted

BEDFORD ALL TYPES WANTED. BEDFORDS WANTED FOR CASH.

CHANDLERS MOTORS. LTD.

71 GREENWICH SOUTH STREET. LONDON S.E.10

Greenwich 2033-4,

BEDFORDS wanted.

BEDFORDS wanted.

REDFORDS wanted! Bedfords wanted!

WE want Bedfords! Trucks, tippers, vans. Littons, etc. G.T.C. (Commercials). Ltd., 2 Addington Rd., Bow Rd., E.3 Advance 5242-3.

A BEDFORD for sale? Phone, Hamilton Motors, 466-490 Edgware Rd., London, W.2. Phone, Paddington 0022 (12 lines). Immediate settlement and best prices.

895-330

B.M.C.

B.M.C. 1960 (November) 7-ton short-wheelbase tipping body, all accessories, immaculate, 2,000 miles only OSWALD TILLOTSON, LTD., Summit Works, Burnley Phone 2201.

B.M.C. 1960 (June) 7-ton tipper, 15-ft. 6-in. steel
D. D. EASTWOOD (COMMERCIALS), 27 Aston Rd.
North, Birmingham, 6. Axt 3467.

1960 B.M.C. diesel, 7-ton tong-wheelbase truck, very small mileage, clean and well maintained, 18-tt. 1958 B.M.C. diesel, 7-ton, long wheelbase with 22-ft. M.C. diesel, 7-ton, long wheelbase with 22-ft. well maintained, power steering, 2-speed axie, £650 A.S.O other good B.M.C. vehicles in stock.

RUSH GREEN MOTORS, Langley, Hitchin, Herts. 896-297 1956 B.M.C. forward-control tractor, diesel, SKFED 2-speed axle, Scammell coupling, good tyres, choice of two, 4295 each. No part-exchange. E. W. Campion and Sons, Ltd., Lincoln 20241.

1957 B.M.C. Scammell tractor unit, choice of traders JACKERBY AND CO., Maybells Farm. Ripple Rd., Barking, Essex. Dominion 5583, 896-542

COMMER

NEW COMMER York 6-wheel alloy 22-cu.-yd. tipper. 9300 x 20. 5-speed air brakes, suitable grain; coal. etc., delivery this week.

NEW COMMER 2-ton pick-up truck with drop sides,

JEW COMMER 4-ton pick-up truck with drop studes, 2583.

JEW COMMER 4-ton diesel pick-up with fixed sides latest forward control.

1958 COMMER COMMER COMMER ON 154000 miles only, 2575.

1956 COMMER ON betrol 7-tonner, 18 ft., £125.

757 COMMER Superpoise 6-ton, P6 diesel, drop side, 5-sneed, £375.

1950 COMMER Superpoise 6-ton, P6 diesel, drop side, 5-sneed, £375.

1950 COMMER 8-wt. EDV, all estate car fittings.

1960 COMMER 8-wt. EDV, all estate car fittings.

1960 COMMER 8-syd. Rootes diesel tipper, 9.00 x 20. at trakes. 5-speed, £1,505.

1954 COMMER 25-cwt. super capacity van, bargaln.

1960 OMER S. Speed £1,505.

1960 OMER S. Speed £1,505.

JOHN JORDAN, official COMMER dealers. Manor Garage, Sandy, Beds. Phone 271 1957 TS3 diesel tipper, long wheelbase, £475 Langley Mill Commercial Vehicles, Ltd. Ltd. 896-76

HUNTER VEHICLES. LTD.,

CROWN WORKS. 290 SOUTHBURY ROAD. ENFIELD.

1958 COMMER diesel 30-cwl. van. 300 cube. silding excellent condition, choice of three.

IMMEDIATE DELIVERY. HIRE-PURCHASE TERMS ARRANGED

HOWARD 4184.

1953 COMMER 2-3-tonner box van. in mint con-cual to 1960 shape, fitted very large-capacity body, petrol, £125. Terms. exchange. 10 Aspen Close. Orpington. Farnborough, Kent. Farnborough 53010. 806-198

1957 COMMER 7-ton TS3 platform truck Road condition throughout £695. Arnold 7771.

1960. September. COMMER TS3 diesel 6-wheel sion, Edbro twin ram tipping sear, air brakes, 9.00 x 20 tyres, very small milease, bargain, £1,650. September, COMMER TS3 7-40n long-9.00 x 8-pt the transparent to the transparent transparent to the transparent transpare

1960 Model COMMER TS3 diesel 7-ton tipper, 12-ft. drop-side body. 9.00 x 20 tyres, 21,000 miles, perfect, 1860.

AND L. VEHICLES SUPPLY CO., 27-41 Gravel

A. Lane Salford, 7. Phone, Manchester Bla 1511,
896-514

COMMER 1956 TS3 diesel, 18-ft, drop-side body, steel bolster, 9.00 x 20% tyres, 2-speed axic, £550. Phone, Woolwich 0137.

February 17, 1961—THE COMMERCIAL MOTOR 49 (Supplement)

Used Goods Vehicles (confd.)

1956 COMMER tractor unit, 10-12-ton, Eaton 2-3 HIRE-PURCHASE, part-exchanges.

CONTAY MOTOR WORKS, LTD., 164 Southwark Bridge Rd., S.E.1. Waterloo 6162-3. 896-415. A. SPRINGALL LTD.

1959 COMMER 6-wheel drop-side bulk tipper, all charks in the week of the control of the control

Woodwich \$113.

1954 COMMER Q4 5-ton track, P6 engine, just had complete bottom overhood, 2725, because 1955 COMMER TS3 Mk. III lung whee base drop-tile truck 901 x 30 tyrs, only 2750.

THE STEVENAGE MOTOR CO., LTD., Stevenage 2400, 896-341

1959 COMMER 7-ton long-wheelbase fixed-side coul tipper. Hamblins of Rushden. Phone, Rushden 3211 Northamptonshire.

Commer Wanted
COMMER Rootes diesel 11-ft. 9-in.-wheelbase wanted
Phone. Ealing 7987.

OMMUR Karrier 2-ton truck, low mileage, petrol or diesel. Ewell 2382. 896-539

DENNIS

DENNIS Centaur, diesel tipper, 15-ft, heavy-doly with drop side Edwo 20 12-pbt tyres, 80-d condition, throughout, £150.

A DAMS AND GIBBON, LTD., Bridge End. Morpeth, Phone III.

1952 Twin Steer Max, very good condition, 1946 Max, very good condition, any cloo D. R. Munson, Moor Garage, Filtwick, Ber Filtwick Steep

EX-MINISTRY DENNIS Max, reconditioned, £250 [Fhomas, South St. Garage, Wells, Som. Phone 3193.

1947 PAN, aluminium body, excellent condition, ex-for coal or sack deliver'es, sm² at £15. VINCENT GREENHOUS (HER! FORD), LTD. L-de Motor Warks, Herford, Phone 2347.

DODGE

DODGE DISTRIBUTORS

GLOUCESTERSHIRE, HEREFORDSHIRE, WILTSHIRE.

H. R. WILSON-SCOTT. LTD., MONK MEADOW. GLOUCESTER Phone. Gloucester 24447-8.

ALWAYS NEW MODELS AND USED VEHICLES IN STOCK.

PART EXCHANGES WELCOMED.

1960 DODGE 8-ton 20-ft, drop-sider, Leyland engine 13,000 miles only, power steering, 2-speed axle 1956 DDDGE L46R6 7-ton, 18-ft. platform, new 9.00 DWEST H.P., exchanges. Open Sunday mornings.

OHN JORDAN, Monar Garage, Sandy, Beds. Phone

GORDON KING MOTORS, LTD., offer:-

1950 DODGE P6 diesel Luton furniture van.

nochanically sound, £150
1,000-cu.-ft: hody, in primer, very good hody,
nochanically sound, £150
1946 DODGE, similar to above but 4-cylinder petrol
normal size sood hody but sign-written, £50.

BOTH these vehicles offered for early clearance.

MITCHAM LANE, S.W.16. Streatham 3133-4

L. A. MITCHELL (MOTORS), LTD., DODGE DISTRIBUTORS

PERKINS DIESEL DISTRIBUTORS

PERKINS DIESEL INSTRUCTION OF THE PERKINS DIESEL D

1955 DODGE 146 AR6 7-ton drop-side lorry, 18-ft.
G. ROWBERRY AND SONS, LTD., 264 Oxhill Rd.,
Handsworth, Birmingham, 21, Northern 3539.

1958 DODGE 7-ton long-wheelbase bulk body coal tipper, Leyland engine, Eaton axle and power

COX'S MOTORS (HILL TOP), LTD., 127 Hill Top. West Bromwich. Phone, Wednesbury 0470. 896-242 K.J. MOTORS, LTD., offer:-

1955 Series DODGE, 5-ton 5-cu.-yd. tipper, petrol engine, one owner, £279. Kent. Ravenvbourne R96-349

E.R.F.

1954 E.R.F., ALK engine, 2-speed asle, 12-ft. drondide tipper, £300, R. Justice, Winter Closes,
Underwood, Notts, Phone, Langley Mill 3182; home

Used Goods Vehicles (contd.)

E.R.F. 8-ton long-wheelbase twin ram 11pper, 4LW, D. B. EASTWOOD (COMMERCIALS), 27 Aston Rd D. North, Brmingham, 6. Ast 3467. 896-231 E.R.F. 7-ton 18-ft. platform lorry, 5LW engine.
FERF 5-speed gearbox, £195, or H.P. arranged.
HENRY EATON, LTD., 107 Pulmerston St., Ancoute.
Manches & Phone. Ardwick 3146. 896-202

FODEN

DISMANTLING 1953 FODEN 8-wheel tipper, all parts available. Langley Mill Commercial Vehicles, Ltd. Langley Mill 2623 (Notts). 896-75

1951 Ex-W.D. FODEN 6-wheeler, double-driv 4400. R. Justice. Winter Closes. Underwood, Phone. Langley Mill 3182; home 3625.

1946 D.G. FODEN platform, D.D., 6LW, very clean vehicle, £375. D. R. Munson, Moor Garage, Flitwick, Redford, Flitwick, 485.

FODEN DG 8-wheeler, 6LW, low booster, double-side 12-cu-yd, alloy budy, underfloor tipper, br scarbox just overhauled, £500, o.n.o. Crossways Ga Rothwell, Nr. Leeds.

FORD THAMES AND FORDSON

1960 FORD County 6-wheeler, 24-ft. platform, trailing axie, 9.00 x 20, unfaden weight 4 tons 16 cwt., 100 m. leage; £1,250.
1960 FORD Trader 6D 7-ton, 18-ft. platform, body cough, £600, 50 brader printrose 6-wheeler, 21-ft. platform, 1959, June, FORD 6D Trader, Scammell 25-ft, 100.
1959, June, FORD 6D Trader, Scammell 25-ft, 500.
1959, PORD Trader 6D 7-ton 138-ft, wheelbase 15-ft, 500.
1959, drop-sider, heater, flashers, etc., choice of three, 1750.

1955 FORD 4D long-wheelbase tipper, recent repaint.
1956 FORD 4D long-wheelbase 16-ft. drop-sider, £285.
OFFICIAL FORD dealers.

JOHN JORDAN, Manor Garage, Sandy, Beds. Phone, Sandy 171-2. 896-49

PORD THAMES van. 1957. D4, one owner, heater, very good condition, 35,000 miles, roll-up back, approx. 100 sq. ft, £450 o. no., cost new £1,900.

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1958 FORD Thames Trader tractor units. Scammell counlings, recently replaced by 1963 models, with traiters if required.

APELY: Hatwhorn Garages (Nelson), Ltd. Phose Nelson 310.

1959 Thames Trader 7-ton Anthony Hoist tipper gear, choice of two, guaranteed, £825. Arnold 7771.

W. HAROLD PERRY. LTD., MAIN FORD DEALERS.

FINCHLEY. 1959, December, THAMES Trader 7-ton 6D long-wheelbase platform truck, low mileage, man; 1959 THAMES Trader 7-ton 6D 7-cu.-yd. tippers, new Anthony metal bodies and tipping gears. 1737 new Amitony messal choice of three, 1895.
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many extras, £1,795.

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GOD selection of Thamnes and Bedford light vans and
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297 BALLARDS LANE, North Finchley.

HILLSIDE 8888.

1960 Trader, 7-ton, 20-ft, body, 9,09 x 20 tyres, 23,000 miles, immaculate, £000 o n o. Long-wheelbase drop-aide FORD 4D truck. 1955 FORD 4D 4-ton, 18-ft. platform. Trader envine excellent condition, £250. Phone. Corporanii 896-19

ONE 1959 FORD Trader, 152-in, chassis and cab, £675.
246 Bromley Rd., Catford, S.E.6. Hither Green
896-162

HUNTER VEHICLES. LTD.

CROWN WORKS 290 SOUTHBURY ROAD, ENFIELD.

1957 Thames chassis-cab. 157-in. wheelbase. 3 ions 4D engine, 7.00 x 20 X10-ply tyres, one owner txellent condition.

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one owner, exceptional condition.

1956

one owner, exceptional condition.

One owner, exceptional condition.

2-way loader, one owner, excellent condition.

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HIRE-PURCHASE TERMS ARRANGED.

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1959. October, FORD 6D Trader 7-ton short-wheels only.

CON'S MOTORS (HILL TOP), LTD., 127 Hill Top.

West Bromwich. Germanon.

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Wast Bromwich. 1959, October, FORD 6D Trader 7-ton short-who base tipper, new body and gears, 2,000 n

A Selection of used Thames Trader tippers.

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UXBRIDGE, MIDDX. Uxbridge 3444.

ONE 5-ton -6D long-wheelbase truck, 1958, good condition.

ATE 1955 3-ton THAMES 4D drop-side truck, nice condition.

1959 1HAMES Trader 6D, 6-cu.-yd. Anthony drop 1959 16d. on 9.00 x 20, immaculate vehicle.

COMBS SERVICE STATION (FORD Main Dealers).

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1950 THAMES Trader 7-ton long-wheelbase truck.

1950 very small milease, 4850.

1950 thames 1 milease, 4850.

1950 drop-sided body, in very nice order, very low milease, 4850.

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1950 the state of the state mileage, £850.

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A exchanges.

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1955 FORD 4D 4-ton, 15-ft, drop-side body, tyres sood, new battery required, £185, 1959 FORD Trader 6D 7-ton fitted 16-ft, 6-in, drop-side body, well looked after, excellent con-phone. Southempton 74947.

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108-in. wheelbase, 9.00 x 20 tyres, flashers,
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Phone. Prospect 2235.
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BENTLEY BROS. (SHEFFIELD), LTD. VAUXHALL AND BEDFORD MAIN DEALERS. 71 THE WICKER, SHEFFIELD, 3. Phone 29281.

1959 THAMES Trader short-wheelbase tipper, high side steel body, excellent condition, £825, 1956 FORDSON Thames 4D engine, meat container body, ready for immediate use, £195. 196-294

FORD sale. Two Ford Trader 7-ion tippers, October, 1958, model. D. Davies and Sons (Transport). Ltd., Liansavel, Llandle. 896-462

Llansavet, Llansavet, elanoscope, and the rear doors, low 1955 step-in, ideal-donesto-door grocery deliveries, one C-licence owner, very sood-condition. H.P. arranged to approved applicants. Phone, Bezleyheath 7108.

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1955 FORD long-wheelblase tipper, steel drop-side body, reconditioned P6 diesel, new tyres, £125.
bdsware £175.

GORDON KING MOTORS, LTD., FORD AND THAMES DEALERS.

TRADER 4D diesel 4-ton chassis, fitted with 1,250-cu-4t, low loading Luton body, new and unregistered ex works for early derivery. £1,220.

TRADER 4D diesel 4-ton low-frame chassis, fitted with 1,250-cu-4t body as above, immediate delivery from 1959 Thames Trader 7-ton 7-cu.-yd. tipper, Anthony MICHAM LANE, S.W.16. Streatham 313.4-

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958 THAMES Trader 7-ton chassis-cab, fitted with platform body, £725.
957 THAMES Trader 5-ton tipper, £590.

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THAME'S 4D, 600-cu-ft, box body, £300. RANK G. GATES. LTD., Gates Corner, E.18. Wan-stead 6633

1957 FORD Trader 5-ton 6D drop-side tipper, 2-speed axle.

CARMO, of London, Leighton Rd., London, N.W.5, 604lher 5555. 1958 FORD Trader 4D diesel 3-ton boxvan, 35,000 Ewell Miles. £490. Dawnier Motors, Ltd. Ewell 896-518

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PORDSON THAMES 4D vehicles, trucks, vans and Lutons, 1957 onwards all types. Ferraris of Crickle-wood. Ltd., 200-220 Cricklewood Broadway, N.W. 2 896-61 WANTED, FORD 4D vans and Perkins, all capacity from 1955 onwards. Chandlers Motors, Ltd., Greenwich South St., London, S.E.10, Gre 2033-4.

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1956 GUY 6-wheeled platform lorry, 22-ft, body, cunning order, £750.

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PRIMROSE ENGINEERING WORKS, WOONE LANE, CLITHEROE, Phone Clitheroe 785,

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NEW VEHICLES.

GUY Otters, 9 ft. 9 in, and 14 ft. 9 in., 4LK engine.
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GUY Warrior, 9 ft., 15 ft. 9 in., 18-ft. 2-in., wheelbase.
GUY Warrior light 6-and 8-wheelers, 18-ft. 2 in.,
GUY Warrior light 6- and 8-wheelers, 15-ft. 3 in. and
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GUY Invincible, 15 ft. 3 in. fitted 6LX engine, L.S.D.
P.T.O.

EARLY DELIVERY

OF INVINCIBLE 6- AND 8-WHEELERS, 6LX ENGINE. ALLOY underframe platforms. Primrose steer and third axless Syndromic lubrication system fitted, painting, lettering, etc. 400, 400

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1955 And 1954 LEYLAND Comet normal-control EARLy tippers, 14-ft. 6-in. coal body.

EARLy tilvery of new LEYLAND Comets and Super Comets.

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LEYLAND Comets, long and short, lippers and trucks.
Being replaced by new vehicles. From £500, 903-07-15 1955, October, Octopus 8-wheeler, 24-ft. flat body air brakes, ex C licence owner, one driver

Only, excellent condition.

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OR all your vehicle and bodybuilding requirements. HERWIN CANNY AND CO., LTD., Woolwich 8161 feight lines); after 7 p.m., Longfield 2524, 896-374

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1957 MORRIS-COMMERCIAL 5-ton forward-control long-wheelbase, drop-side lorry, in good

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ong-wheelbase, drop-side torry.
B. AND W. MOTORS, LTD., Derry St., Wolverhampton. 20774.
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1957 7-ton long-wheelbase SEDDON diesel, twin ram tipper, 14-ft, 9-in, drop-side body, de luxe rab with fibre glass roof, sound wehicle throughout with every tyre in good serviceable condition, a vehicle which we highly recommend, £395.

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1950 SEDDON 5-ton long-wheelbase drop-side truck. available, £250.

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1952 SEDDON Mk. 5 diesel 7-ton 17-ft. drop-sider,
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1954 SEDDON 7-tonner, Comet engine, long-wheelbase chassis and cab.
TERMS or part-exchanges welcomed.

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NEWPORT MOTOR SERVICES, East Usk Rd., Newport, Mon. Phone 59441.
SEDDON distributors for Monmouthshire.

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25-TON SCAMMELL tractor with 6LW Gardner excellent tyres, rebuilt 1959. Also available if required:—25-TON low-loading trailer, 20-ft, well, knock-out axie. MERTON ENGINEERING CO., LTD.,

1948 SCAMMELL 25-ton low-loader, 20-ft. well. new, a very large concern. Gardner G.W engine. 6-speed DUSH GREEN MOTORS, Langley, Hitchin, Herts. Stevenage 174.

NOTTINGHAM. Phone 71161.

MANCHESTER. Phone, Trafford Park 1658.

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ALSO:-PROMPT delivery from complete SCAMMELL range of Dumptrucks, 6-11 cu. yd. rated capacities available, on/off site duties.

SALES, SERVICE AND SPARES. OFFER delivery on works new Highwayman heavy-duty 25-30-ton machinery transporter, in primer and fitted 4-ton hand winch.

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CARMO, of London, Leighton Rd., N.W.5.

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FOR all your vehicle and bodybuilding requirements.

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1958 COMMER 153 iong-wheelbase tupper.

1959 BEDFORD 5-ton large-capacity van, petrol, 1256 BEDFORD 5-ton long-wheelbase twin-ram tipper, 1958 BEDFORD 7-ton forward-control long-wheelbase dies-il drop-side, fitted with 2-speed aske, 9.00 x 20 12-ply tyres, 3-piece wheels, £675.

1958 BEDFORD 5-ton forward-control medium-wheel-sace disper, single aske, 8.25 x 12-ply tyres, 3-piece wheels, £670.

1957 BEDFORD 7-ton forward-control short-wheel-sace disper, single aske, 9.00 x 20 12-ply tyres, 3-piece wheels, £600.

1959 Thames Trader, 7-ton long-wheelbase twin-ram tipper fitted with 900 tyres.

THREE MONTHS' GENUINE WARRANTY.

1953 6-40.

1954 BEDFORD 4-ton van, P6, 6225.

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1957 6-400 BEDFORD short-wheelbase tipper, P6. 640.

1957 6-400 BEDFORD short-wheelbase tipper, 300-in. 650.

1958 ER.F Twin Steer, rebuilt, re-registered.

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Commer E.D.V.. Austin and Bedford vans, regularly available ex contract, lightly used, lare models, regeularly maintained, all well above-average condition, from £165. Generous H.P. teams and exchange prices. Early delivery on all new Commer and Karrier models Extensively on the Commercial Commer

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1952 VULCAN, Scammell-coupling tractor unit, P6 engine, Eaton 2-speed axle. Hamblins of Phone, Rushden 3211, Northamptonshire.

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VULCAN 4-wheeler, Gardner engine, 2-speed axle, 9.00 x 20 tyre equipment, large-capacity Duramin war

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Thornycroft Wanted WANTED, THORNYCROFT 6- and 8-wheelers
Details to Walker Bros., Ltd., Mideleton, near
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1948 THORNYCROFT 6-7-ton flat, nice condition.

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EX-W.D. 4 x 4 trucks, good selection. Cundey and Stewart, Ltd., Alfreion, Derbyshire. 896-803 1950 THORNYCROFT Sturdy platform, 6-cylinder Di engine, 5-speed box, £80. K. T. Cook London Rd., Binfield, Berks.

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DYSON Low Loader trailer, 14-ft, well, winch and skids, 36 x 8 twin rears, knock-out axle, together with 1956 B.M.C. diesel forward-control tractor unit, single-speed rear axle.

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THREE used 20-ft, 10-ton trailers with Scammell attach-ment, front loading board, in excellent condition.

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tited with service short Motor, both in very good con1957 BELFFORD 8-ion N/C Scammell deset tractor
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1958 tractor unit, £225.
1958 complete with stabilizer, excellent condition.
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1955 BEDFORD 7-ton short-wheelbase U-shaped 1955 bodied tipper, petrol engine, £375 each. DODGE P6 diesel short-wheelbase tipper, 2-bed box, reconditioned engine titted three months ago.

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COMMERCIAL VEHICLES AND YORK TRAILER
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NEW VEHICLES A VAILABLE FOR

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ODGE, Model 3165 AZ 6-wheel tippers, complete. JUNE, 1960, DODGE 7-ton normal-control coal tipper, fitted Leyland engine, 2-speed.

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Unipower third axle, 3-speed box, air brakes,
19-ft, coal body.
19-ft, coal body.
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1958 COMMER TS3 7-ton platform larry.
1958 COMMER TS3 7-ton platform larry.
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1958, Catcober, DODGE 3145AY Comet engine, wonder coal body.

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February 17, 1961-THE COMMERCIAL MOTOR 51

Used Goods Vehicles (contd.)

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1960 COMMER TS3 diesel trucks, low mileage.
1960 truck, 18-ft. body, power steering, 9.00 x 20
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1958 BEDFORD drop-side truck which has done a
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1957 FORD 4D diesel 5-ton long-wheelbase drop1958 BEDFORD 5-ton long-wheelbase drop-side
1954 BEDFORD diesel 5-ton long-wheelbase drop-side
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1950 MAUDSLAY twin sieer 6-wheel truck, A.E.C.
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1960 THAMES Trader artic, unit and 25-ft. 12-ton 1960 Thames Trader articulated unit, S.A.E. 5th-wheel coupling, £725. (Trailer can be supplied if 1954 BEDFORD-SCAMMELL 10-ton diesel artic.

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1.600 CU.-FT. 1956 BEDFORD 5-ton Luton van. body. unladen weight 2 tons 19 cwt., most be seen to be seen to be seen to 1.000 CU.-FT. 1950 Thames Trader, 4D diesel. 1.000 CU.-FT. 1957 FORD 4D diesel. Luton-type van. 600 Cu.-FT. 1957 FORD 4D diesel. Luton-type van. 600 Cu.-FT. 1955 AUSTIN-B.M.C. diesel 3-ton box-angeparate cab. 2500 CU.-FT. 1955 AUSTIN-B.M.C. diesel. 3-ton box-600 CU.-FT. 1955 AUSTIN-B.M.C. diesel, 3-ton Luton 400 CU.-FT. 1955 AUSTIN-B.M.C. diesel, 3-ton Luton 400 CU.-FT. 1956 FORD 4D diesel, 30-cwt. van.

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1960 BEDFORD diesel normal-control 7-ton medium-of two, £895. of two, E895.

1960 tipper, 5,000 miles only, as new, E850.

1956, drop-side tipper, wooden body, one C licence 1956 FORD 4D diesel 2-ton short-wheelbase tipper, one very careful owner-driver from new, £260.

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Advance 5242 or 6495.

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THE LEADING SOUTH-WEST LONDON BEDFORD
MAIN DEALERS.

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BEDFORD 12-ton tractor unit, fitted with 350-cu.-in. Comet diesel engine and 9.00 x 20 12-ply tyres. BEDFORD TK 7-8-ton truck fitted with 18-ft. drop-side body, 556-cu-in. Comet diesel engine, 5-speed gearbox, 2-speed axie and 9.00 x 20 12-ply tyres, idea vehicle for heavy and arduous work, £1,860. BEDFORD 10-ton tractor unit fitted with 300-cu-in. Tasker D/S automatic coupling, £1,300. BEDFORD 3-ton long-wheelbase truck, diesel, £932.

BEDFORD TK 5-ton long-wheelbase truck chassis-cab (diesel), fitted with radial tyre equirment, £1.000.

AND ROVER 88-in.-wheelbase (petrol) fitted with hard top, £1.78

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1958 Coachbuilt body, £295.

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1957 BEDFORD 5-ton tipper, petrol, 12-ft, steel drop 1955 BEDFORD 5-ton tipper, 13-ft. 6-in. timber BEDFORD 7-ton tipper, petrol, U-shaped steel 954 body.
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1957 2-ft. imber fixed discount engine. II-ft. 6-in. by

1957 2-ft. 6-in. timber fixed sides.

1950 by 6-ft. imber fixed sides, choice of two.

1950 by 6-ft. imber fixed sides, choice of two.

1950 commer Ts3 7-ton 13-ft. by 3-ft. timber drop-side.

1950 commer Q4, P6, 10-ft. timber drop-side. 1958 FORD Trader H-D 5-ton, 6D engine, 12-ft. 1954 BEDFORD 7-ton R6 11-ft. 6-in, steel U tipper, 1951 LEYLAND Comet 90 short-wheelbase tipper,

PLATFORM.

1958 FORD Trader 7-ton articulator, 22-ft. Carri-more trailer. 1957 COMMER TS3, 19-ft. timber drop-side. 958 B.M.C. 5-ton 14-ft. 3-in timber flat. 956 BEDFORD 7-ton R6 16-ft. timber flat. 956 BEDFORD normal-control 16-ft 6-in, timber flat. 955 DODGE 6-ton P6 16-ft, timber drop-side. 957 SEDDON 6-ton, P6, 16-ft, 6-in, timber drop-side 957 BEDFORD tractor unit with 23-ft, Scammell FORD Sussex P6 18-ft. 6-in. timber drop-side. PURD Nussex P6 18-ft, 6-in, timber drop-side.

1954 BEDFORD-SVAMMELL tractor unit, 6D engine, cho ce of No. Comet Model ECOS-4R, 19-ft. 1953 ThORNYCROFT 18-ft. timber double-drop-side.

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2954 ATKINSON 7-ton, 18-ft, timber flat. 951 1954 1954 ATKINSON 6-ton, 18-ft, timber flat, 1957 BEDFORD 6-ton, 16-ft, timber drop-side, 1959 FORD Trader 7-ton 6D, 18-ft, alloy framed timber flat; choice of two. FORD Trames 3-ton 4D, 14-ft, 6-in, timber flat; choice of two. The state of th

1960 ALBION Chieftain Model CH3AXL, 19-ft. VANS.

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AVAILABLE for immediate delivery, Ford 15-cwt, van; Trader 5-ton 6D 1,650-cu.-ft. Luton van; Ford 5-cwt.

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2-ft, headboard, £804 5s.

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gravity discharge, all in good condition throughout, El, 150, DeDFORD, 1952. R6 dieset Dyson 10-ton semi-low loader, twin oscillating axies, eight wheels in line. To semi-low loader, twin oscillating axies, eight wheels in line. To semi-low-loader left, 150, To couling, E650. Tractor unit, no Coupling, E650. Tractor unit, S.A.E. Coupling, complete with new Tasker 8-ion semi-low-loader, 18-ft, lower bed, £1,450. F0 tractor unit, S.A.E. Coupling, complete with new Tasker 8-ion semi-low-loader, 18-ft, lower bed, £1,450. F0 tractor unit, S.A.E. Coupling, complete with Tasker low-loading semi-trailer car transport van; this is a drive-in van with workshop accommodation and was designed to carry and service racing cars: has large opening panel at side and doors each side; all in good condition; would make excellent demonstration van, 1850. Would sell traiter separately. BEGORD, 1954, S-type tractor unit, R6, no coupling 1964. The 1946, Gardner SLW tractor unit, in excen-

BERORD, 1954, S-type tractor unit, R6, no coupling
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ALBION tractor unit, fitted with Meadows 4-cylinder
YORK DW2 12-ton 26-ft, platform trailer with headboard, used a few times only, in absolutely as-new
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1960 GUY Invincible, fitted A.E.C. 7.7, automatic lubrication, single drive, genuine micage 24,000, 1960 GUY Invincible, fitted with Meadows 6-cylinder.

1960 GCY Invitation, the white state with a state of the state of the

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20 tyres immaculate, C-licence operator.

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MAUDSLAY 7.7, fitted new cab, 20-ft, body.

MAUDSLAY 7.7, fitted new cab, 20-ft. body, Number of 1952 ALBION Chieftain 16-ft. flats.

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1957 SEDDON, fitted wood coal body.
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3-FT, 12-ton Scammell coupling trailer.

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1949 A.E.C. 8-wheel 24-ft. flat.

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LEYLAND Octopus 8-wheel tipper, 23-ft. new steel body.

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1958 Inames 12-seater, £375.

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1957 2-breed axless, from £650.

1956 hody, £660.

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1956 6-ton short-wheelbase diesel tipper, 7-cu.-yd. steel
1956 6-ton short-wheelbase diesel tipper, 7-cu.-yd. steel
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tion, choice of two, 1955 a LBION Clydesdale tractor unit, fifth-wheel complete with Trak-gripe.

BRISTOL crawler tractor, Model 22, P3 diesel engine, complete with Trak-gripe.

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1953
ALBION Chieftain, 4-cylinder Albion engine, 17-ft. 6-in. platform body.
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A.E.C. Mammoth Major 8-wheeler, 9.6 engine, double drive, 24-ft. platform body.
1959
COMMER T83, 2-stroke engine, 17-ft. 9-in. dron-sided body.
1958
B.M.C. tractor unit, 6-cylinder diesel engine, fifth-wheel coupling, MAUDSLAY Mogul, 7.7 engine, 18-20-ft, platform body.

ARRIMORE 4-wheel trailer, 16-ft, wood platform

1958 body.
1960 (Late) B.M.C. tippers, Autolift gear, 11-ft. 6-in.
1960 (Late) B.M.C. tippers, Autolift gear, 11-ft. 6-in.
1959 (Late) B.M.C. tippers, Autolift gear, 11-ft. 6-in.
1959 (A-BION Chieftain, 4-cylinder Albien ergine, 1959) (Late) (Late

two. 5-speed gearbox. 18-4t. platform body. Choice 1959 52-ft. 6-in. wood platform body, immaculate. 1959 42-ft. 6-in. wood platform body, immaculate. 1959 42-ft. 6-in. wood platform body, immaculate. 1958 42-ft. 6-in. wood platform body, immaculate. 1958 42-ft. 9-ft. wood platform body. ft. 1959 62-ft. 1

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1955 AUSTIN 2-3-ton boxvan with B.M.C. diesel

1955 COMMER diesel TS3 12-ton tractor, 2-speed axle, etc., with 24-ft, trailer and fifth-wheel

1959 FORD Trader 6-wheel flat-platform truck 1956, October, COMMER 7-ton TS3 d'esel tipper, one owner since new, 9,00 x 20 tyres, in good

1960 FORD Trader diesel 7-ton medium-wheelbase lipper, steel body.
1960 FORD Trader 6-wheel flat-platform truck.

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brakes on all wheels, with or without 24-ft. alloy bodywork.

New GUY warrior 4-wheeler chassis and cab, A.E.C. engine, air brakes, 10-stud wheels, 18500 2-speed axie, suitable for 21-ft, body.

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NEW Scammen Letth 2-11. But the state of the

JEW Scammell 12-ton 25-ft, semi-trailers.

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NEW AND USED 8-WHEELERS ALWAYS IN STOCK.

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chassis-cab (or available as tippers), reasonable de., very, New Arkinson T.1506X (dardare of M.X. 150 b.b.p.), Ne-wheel double-drive tractor unit, power sitering (or untable for connerte miser).

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heaters, now being recetified.

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41-seater, 8 ft. wide, radio, heaters, Formica panels
other extras fitted, finished blue-grev, glass roof quarters
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DEDFORD SBI, 300-cu.-in. oil engine, Harringto Crusader 41-scater, 8 ft. wide, glass roof quarteradio, Formica panels, other extras fitted, finished creat

finished cream.

BEJFORD SBI, 300-cu-in, oil engine, 2-speed axie.
Plaxton Embassy 41-seater, 8 ft. wide, radio, microphone, heater, Formica panels, marker lights, other extras,
finished cream.

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LONDON. S.W.1. PHONE, VICTORIA 6033.

New Coaches for Immediate Delivery OR EASTER, WHITSUN

A.E.C. Reliance, air brakes, Duple Britannis frontbeaters, wall of the search of quarters,
coachwork, two finished cresm, one in prime; choice of
three; ready for Easter.

A.E.C. Reliance, air brakes, Harrinaton Cavalier
and hester, other extras fitted, red moquette, in primer.

A.E.C. 41-seater coachwork, quarters lights, Formica
panels hester, other extras fitted, red moquette, in primer.

A.E.C. 41-seater coachwork, Formica panels, heaters,
other extras fitted, red moquette, in primer.

A.E.C. Reliance, air brakes, Plaxton Embassy 41sources, heater, Formica panels, finished two shades arey.

Britannia 41-seater coachwork, glass roof quarters,
heaters, walnut lining panels, special moulding, other
extras, two only, Whitsum delivery.

NEW COACHES SUPPLIED ON ALL MAKES OF PASSENGER VEHICLES.

USED COACHES EX STOCK. BEDFORD.

1959 SB3 petrol 41-seater Duple Super Vega, red moquette, beaters and other extras fitted, finished grey and red, certificate of fitness 1966.
1959 SB1, 300-cu-in, diesel, 41-seater Burlingham, red moquette, radio, heaters, finished green, certificate of the computation of the c

1959 Shl, 300-cl.-in. deself, 41-seater Burlingham, red moquette, radio, heaters, finished green, certificate of fitness 1966.
1957 In-inshed involve-red, certificate of fitness 1964.
1958 petrol, 41-seater Platton, red moquette, sin-shed hive, certificate of fitness 1964.
1956 SB petrol, 41-seater Duple, 7-ft, 6-in, wide, red moquette, adio, heater fitted, finished orange-ream, certificate of fitness 1964.
1955 SB petrol, 48-seater, Duple, heater fitted, red fitness 1965.
1955 SB petrol, 38-seater, Duple, heater fitted, red fitness 1965; choice of two.
1957 SB petrol, 38-seater Duple, 2-speed axle, Formica panels, finished green, certificate of fitness 1965.
1957 CHOICE of several 1951-23 BEDFOMD petrol engines with Duple-Plaxton coachwork, 33-57 seaters, all with Duple 29-seater Vista coachwork.

A.E.C.

1958 Reliance, 43-seater Duple, front entrance, radio, heaters, glass roof quarters, many extras, finished metallic blue, immaculate condition, certificate of

frinces 1965.

Rellance, Duple, central entrance, 43-seater
1956 Elizabethan coachwork, red moquette, beaters
fitted, flaished grey and red, certificate of fitness 1961.

Mark IV, 41-seater Yeates coachwork, red
moquette, finalhed maroon and cream, certificate

(Continued in next colu

Used Passenger Vehicles (contd.)

1952 Mark IV, 41-seater Burlingham, central entrance, automatic chassis lubrication, heaters, finished maroon-grey, certificate of fitness 1962.

1951 Mark IV, 41-seater Heaver, glass roof quarters, entrance, certificate of fitness logalished green, central centrance, certificate of fitness logalished green, central 1949 Mark III, new Yeates 35-seater coachwork fitted blue, certificate of fitness 1962; choice of three, logalished green, certificate of fitness 1962; choice of three was the seater full-front coachies and control of the coachies and coachies an

LEYLAND.

1952 Royal Tiger, 35-seater Bellhouse-Hartwell special fitness 1964. HOICE of several 1947-50 PS1-2 Duple half-cab

COMMER.

1959 TS3, fitted 5-speed overdrive gearbox, air coachwork. red moquette, Formica panels, heaters, lulled full fuzzy mileage, finished blue, certificate of fitness 1965.

1956 TS3 Duple 41-seater, red moquette, Formica panels, heaters, liw mileage, finished blue, certificate of fitness 1965.

FORD.

1960, March, Thames, oil engine, 2-speed Eaton coach, radio, Formica panels and heater fitted, red-grey moquette, finished grey and red, certificate of fitness December, 1966, immaculate condition throughout. CHOICE OF SEVERAL DENNIS, FODEN, COMMER AVENGERS AND AUSTIN COACHES, ALL WITH CURRENT CERTIFICATES OF FITNESS,

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NEW 1961 BEDFORD diesel 41-seater Super Vega, fitted with 5-speed box, red moquette, in primer,

1960 BEDFORD diesel 41-seater Super Vega, exter

1967.

BEDFORD diesel 41-seater Super Vera, exterior cream-red, certificate of fitness to March, 1966.

BEDFORD desel 41-seater Super Vera, exterior cream-red, extincate of fitness to March, 1966.

BEDFORD petrol 41-seater Dupt Super Vera, fitness 1966; choice of six.

BEDFORD petrol 41-seater Super Vera, exterior grey-blue, discounting the super Vera, BEDFORD petrol 41-seater Super Vera, exterior blue-black, certificate of fitness to April, 1964.

1965.

1955 BEDFORD petrol 38-scater Super Vega, sterior blue-cream, certificate of fitness 1964.

1955 exterior blue-cream, certificate of fitness 1964.

1955 exterior ivory-maroon, certificate of fitness 1965.

1955 exterior ivory-maroon, certificate of fitness 1965.

1954 exterior maroon-grey.

1954 exterior maroon-grey.

1964.

1954 BEDFORD petrol 38-senter Super Vega, 1954 enterior cream-red, certificate of fitness 964. 1954 exterior black-cream, certificate of fitness 1964. 1953 BEDFORD 35-seater diesel Duple Super Vega, sterior cream-red, certificate of fitness July,

1963.

3 BELFORD diesel 35-seater Super Vega, exterior cream-red, certificate of fitness July, 1952 benefit of the super Vega, exterior permanent of the super Vega, fitness April, 1962.

1951 FODEN, 6LW. 37-seater Metaleraft body, 1951 FODEN, 6LW. 37-seater Metaleraft body, 1951 MAUDSLAY. A.E.C. oil engine, 33-seater ODENNIS, 33-seater, exterior blue-maroon, 2951 DENNIS, 33-seater, exterior blue-maroon, 2951 DENNIS, 33-seater, exterior permanent of the super vega, 2951 St-seater, exterior cream-red, 2951 St-seater, exterior permanent of the super vega description of the

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1956 Red Interior, ranks alias means to the property of the pr

nale £ 2.000

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green interior, green and black exterior. fitted
every available exter. recriftled. £2.450; choice of four.
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Colored of Super Vega.

BEDFORD petrol 33-seater Duple and Plaxton.

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1951 LEYLAND Royal Tiger 41-seater, red pattern moquette, heaters, £975.

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1960 FORD Trader diesel 41-seater Burlingham coaches, choice of three, £3,450.

1950 COMMER Avenger 41-seater Duple coaches, choice of six, Michella X tyres, air brakes, 1956 -57-58 COMMER avenger 41-seater Duple coaches, ex our own east, seater Duple coaches, ex our own east, seater Duple coaches, ex our own east, seater Duple delivery, £2,450-£3,000, easter, £5,150.

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BEDFORD betrol 33-seater Burlingham Seaguil guarters, £1,300, armchair reclining seats, glass roof guarters, £1,300, armchair reclining seats, glass roof guarters, £1,300, armchair reclining seats, glass roof

1953 BEDFORD petrol 35-seater (and courier), Duple coaches, choice of two, glass roof quarters.

1953 coaches, choice or two, heat heater, etc., £1,450, heaters, etc., £1,450, heaters, etc., £1,800, heaters, etc., £1,800, and \$1,250, a

SPECIAL OFFER:

1955 BEDFORD petrol 36-scater Burlingham coach, recertified 1965, very clean, £1,800.

50

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1960 Thamea Trader 41-seater Duple Super Vega.
wheel discs, etc., milesge 19,000, as new.
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the interior, cream exterior, nominal milesge.

1956 COMMER Plaxton 41-seater, fitted diesel, heaters, radio, Eaton 2-speed axie, just been recertified for five years, blue interior, blue and grey

eccertified for five years, blue interior, ollue and green categors. BEFFORD period 41-seater Duple Super year.

1956 red interior, grey-red exterior, fitted heater, radio, etc., just being recertified.

1951 Model LEYLAND Royal Tiger 37-seater, seater, grey seaterior, excellent period wayfarer, blue interior, grey exterior, excellent period of the control of the

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NEW BEDFORD Duple Vega 41-seaters, early delivery. NEW A.E.C Reliance Duple Britannia 41-scaters, early BEDFORD SB1 Plaxion C-type 41-seater, immedi-

1954 heaters, re-certified 1965, one owner, £1.550.
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1960 Model BEDFORD 41-scater Duple, radio, 1959 Thames Plaxton 41-scater.

1959 BEDFORD Plaxton, quarter lights and many 959 BEDFORD Duple 41-seater.

959 BEDFORD Yeates 41-seater, choice of two.

958 BEDFORD Plaxton, choice of two. 958 BEDFORD Plaxton, quarter lights and many

958 BEDFORD Duple 41-scater.

958 BEDFORD Duple 37-seater.

958 BEDFORD, Leyland Comet engine. 41-seater
Duple.
COMMER Plaxion 41-seater, armrests and many extras. many extras.

956 COMMER Plaxton 41-scater

956 BEDFORD Plaxton 37-scater.

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954 LEYLAND Tiger Cub with 41-seater.

1944 BEDFORD Planton 38-scater, choice of two

954 A.E.C. Duple Reliance 41-seater, 1953 BEDFORD Plaxton 35-seater.

1953 BEDFORD Dup'e 37-senter.

1952 BEDFORD Planton 33-senter. 1951-52 BEDFORD Duple 33-seater, choice of three.

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1960 BEDFORD SB8 (K-type moulding scheme, etc., very attractive, £1,35).

1959 BEDFORD Duple Super Vega 41-seater, autumn that interior with heaters, radio, etc., exterior cream with blue reliefs, very nominal milesge, attention of the state of the sta

1959 BEDFORD Plaxton 41-scater, red interior, heaters, etc., exterior, grey-red, most attractive

coach, £3,150.

Todal Communication of the control of the control

1958 BELFFORD via the half of the half of

1755 meerior with reasons of certified 1964, £1,885.
1952 BEDFORD Gurney Nutting 37-scater with heaters, exterior cream-blue, smart, clean vehicle, note the price, £850, 1952 heating, exterior recently repainted in red, 21,285

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1961
BEDFORD Burlingham 41-scater, diesel.
ev-demonstrator, immediate delivery.
1959
BEDFORD petrol 41-scater Duple Super Vega,
radio, heaters, bonnet covers, wheel discs, extra
soot. Triffield of firms 1964.
1953
A.E.C. Mk. IV 39-scater Burlingham, certificate of fitnes 1964.
1953
BEDFORD Super Vega 35-scater, immaculate,
certificate of fitness 1963.
1951
BEDFORD Super Vega 35-scater, immaculate,
certificate of fitness 1964.
1951
LEVLAND full-front 33-scater, certified,
1951
TILLING STEVENS, GLW, full-front 33-scater,
1950
fitness 1965.
1950
FODEN 61w full-front 33-scater, new engine,
certificate of fitness 1964.
1950
FODEN 75 full-front 33-scater, new engine,
certificate of fitness 1964.
1950
FODEN 15 full-front 33-scater, new engine,
certificate of fitness 1964.
1950
FODEN 61w full-front 33-scater, new engine,
certificate of fitness 1964.
1950
FODEN 61w full-front 33-scater, new engine,
certificate of fitness 1964.
1950
FODEN 61w full-front 33-scater, new engine,
certificate of fitness 1964.
1950
FODEN 75 full-front 33-scater, new engine,
certificate of fitness 1965.
1950
FODEN 61w full-front 33-scater, new engine,
certificate of fitness 1964.
1950
FODEN 61w full-front 33-scater, new engine,
certificate of fitness 1965.
1950
FODEN 61w full-front 33-scater, new engine,
certificate of fitness 1964.
1950
FODEN 61w full-front 33-scater, new engine,
certificate of fitness 1964.
1950
FODEN 61w full-front 33-scater, new engine,
certificate of fitness 1964.
1950
FODEN 61w full-front 33-scater, new engine,
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1950
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LEYLAND PDI, fitted Charles Roe high-mislage for the series of the series

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1947-48 Mark III and R.T. type A.E.C. double-tion of the season of the se

SINGLE-DECKERS.

1961 FORD Traders with 41-seater Burlingham and Immediate delivery, some in colour, others awaiting paint-and Duple bodies, available for inspection and immediate delivery, some in colour, others awaiting paint-and Duple works, choice of 10.

1952 LEYLAND Beadles with Beadle all-metal 35-special nigh-backed luxury seating, etc., in immaculate mechanical and body condition, some with certificate of itiness to 1962 others just recertified to December, 1964. choice of 19-seater A. E.C. Beadles, all-metal full-luxury 1964. choice of 19-seater A. E.C. Beadles, all-metal full-luxury lighting, fitted 7.7 A.E.C. diesel engines, certificate of fitness expring end of 1962, price 4550.

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seating, certificate of fitness 1962, choice of two, price 5600-4650.

1951-45. A.E.C.s. and Bristols, fitted Wilhowbrooks and Park Royal coach bodies, with late series low-mistage 7.7 price 5250.

1950 BRISTOL 31-35-seater E.C.W. full-front full-out, fitted bate-series low-mistage Bristol 49.8 diesel engines (15.000 miles only). Conventional season of fitness 1950 miles only). Conventional season of fitness 1955-64, choice of 10, price 2750-670-670 fitness 1955-64, choice of 12, price 2750-670-670 fitness 1955-64. Choice of 12, price 2750-6710-670 fitness 1956-64. Choice of 12, price 2750-6710-670 fitness 1956-64. Choice of 10, price 2750-670-670 fitness 1956-670-670 fitness 1956-670-670 fitness 1956-670-670 fitness 1956-670-670 fitness 1956-670-670 fitness 1956-670 fitness 19

10, price £550.£275.

10, price £550.£275.

1949 GUY Vixen 30-seater, full-front petrol coach, exceptional condition, certificate of fitness 1963.

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1948 LEYLAND PSIs with 35-seater Willowbrook low-micase PSI engines, in excellent mechanical and choice of 24 price £506-£400, level to 1961-02.

1948 -47 BRISTOLS with E.C.W. 35-seater thin-wall all-metal service saloon bodies, fitted late series low mileage 51.W Gardner engine, in immaculate mechanical and body condition, certificate of fitness expiring and of 1969-04. With Burlingham and Duple 1948 -48 AkIDSLAY with Burlingham and Duple engines in excellent mechanical and body condition. Certificate of fitness 1964-62, choice of 10, price £200-£250, price £175-£200. Also Crossley and Daimler with Willowbrook and Duple bodies, £175 each of these 1948 -49 BEDFORD 29-seater Vista, certificate of fitness 1963-61, price £175-£200. Also Crossley and Daimler with Willowbrook and Duple bodies, £175 each 200-£250, price £175-£200. Also Crossley and Daimler with Willowbrook and Duple bodies, £175 each 200-£200, also Crossley and Daimler with Willowbrook and Duple bodies, £175 each 200-£200, also Crossley and Daimler with Willowbrook and Duple bodies, £175 each 200-£200, also Crossley and Daimler with Willowbrook and Duple bodies, £175 each 200-£200, also Crossley and Daimler with Willowbrook and Duple bodies, £175 each 200-£200, also Crossley and Daimler with Willowbrook and Duple bodies, £175 each 200-£200, also Crossley and Daimler with Willowbrook and Duple bodies, £175 each 200-£200, also Crossley and Daimler with Willowbrook and Duple bodies, £175 each 200-£200, also Crossley and Daimler with Willowbrook and Duple bodies, £175 each 200-£200, also Crossley and Daimler with Willowbrook and Duple bodies £175 each 200-£200 each

and Daimler with Willowbrook and Duple bodies, £175

1938 A.E.C.s with 1951-52 Plaxton E.C.W. and
coach bodies. Recently a seed of the service of the servic

GENEROUS PART-EXCHANGE ALLOWANCE. FREE SPARES.

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OWING TO SHORTAGE OF SPACE SLASHING REDUCTIONS IN PRICES OF ALL VEHICLES.

NEW MACHINES. 1961 1961 A.E.C. Reliance, fitted with 41-seater Plaston body, due grey and red exterior, with red interior and fitted with heaters, glass roof quarters, tubular racks, top sliding windows, central entrance with

tubular racks, top aliding windows, central entrance with mat in well.

A. E. Bellinner machines, fitted with either Plaston choice of colours and specifications.

FORD Trader, fitted 41-seater Plaston full-front luxury body, cream and red exterior, with red and grey interior, radio and heater, glass roof quarters, tubular Ford of the plast of the plast

TROJAN 41-seater coach, in primer and fitted with heater.

FIRST-CLASS USED MACHINES.

1960, June, BEDFORD SBI diesel 41-seater Plaxton. cream exterior with red interior, C-type bodies with raised-up floor, side domes and many extras, 16,000

of six.

one, BEDFORD SB) diesel 41-seater Duple dies, cream exterior with red interior, many 1960,

odies, cream exterior with red interior, many of miles, une, BEDFORD diesel, fitted with Burling, am body and finished in maroon and ivory digrey interior, heaters and top sliding ficate to 1967. Pd. 41-seater Duple, K-type touch and red exterior with red conditing area and red exterior with red came exterior with red interior, 7-ft, 6-fn, moulding, glass roof quarters and many 18,000 miles, choice of two.

une, FORD Thames Trader 41-seater Duples, ream exterior with red interior, 7-ft, 6-fn, moulding, glass roof quarters and many une, FORD Thames Trader 41-seater Duples, ream exterior with red interior, 8-ft, wide, parters and inbular racks, K-type moulding. 1960, 1960, 1960,

stass roof quarters and lubular racks, K-type moulding.

1960, June, FORD Thames Traders, 41-seater plaxton bodies, choice of two, finished in cream with red interior and traders, 41-seater quarters with red interior and traders, and arm rests.

1959 Panorama bodies and finished in arey and red with red and grey interior, one-owner machines and absolutely as new. Thames Trader, fitted with 41-seater properties of the plate of the

1959 BEDFORD SB3, petrol, with Plaxton 41-seater body, finished in ivory with red interior, immaculate throughout.

1957 bed BEFFORD petrol 42-seater service bus, Duple
1957 body finished in red and cream and fitted with
heater, all leather seats, in first-dass condition.

1956 BEFFORD, petrol, choice of aix 41-seater
1948 bed Befford Duple bodies, various colours and

specification and Duple bodies, various colours and specifications and Duple bodies, various colours and 1956 (Commerce to the colours) with Eaton 2-speed axle. Duple 1-seater body, finished in red and cream with red interior, fitted with heater, glass roof quarters, tubular racks, top sliding windows and Formica casing panels, errificate of Commerce to the colour finished in cream with autumn tint interior and fitted with glass roof quarters, tubular racks, public address system, armests and Formica casing panels, certificate of fitness to 1966. Plaxton body, pink heater, glass roof quarters, tubular racks and Formica casing panels, certificate of fitness to 1966. Plaxton body, pink heater, glass roof quarters, tubular racks and Formica casing panels, certificate of fitness to 1966. Plaxton body, pink heater, glass roof quarters, tubular racks and Formica casing panels, certificate of fitness to 1966. Plaxton body, pink heater, glass roof quarters, tubular racks and Formica casing panels, certificate of fitness to 1966. Plaxton body, pink heater, glass roof quarters, tubular racks and Formica casing panels, choice of two in blue and tuvry with red interior, to December, 1966.

1956 BEDFORD, 41-seater body by Duple, choice of two in blue and tuvry with red interior interior immaculate condition.

1955 COMMER TS3 with 2-speed axle, 39-seater bodies finished in cream with autumn tint interior immaculate condition.

1956 May, COMMER TS3 with 2-speed axle, 39-seater bodies finished in cream with autumn tint interior and butted with lift-up tool and Formica casing panels.

casing panels.

1955, May COMMER TS3 with Eaton 2-speed axie, interior and finished in autumn that with cream and fawn 1950 BEDFORD 29-scaler Plaxton.

THE FOLLOWING MACHINES ARE TO SELL AT KNOCK-OUT PRICES TO CLEAR.

NO PART-EXCHANGES TAKEN AGAINST THESE VEHICLES.

1956 ROLLS-ROYCE Harrinston Contender 27-seater, transmission, lift-up roof, luxury seate with sustomatic top sliding windows, public address system, £1,250, 1955 BEDFORD, Strachan body with 24 armchair seate and lift-up roof, Eaton 2-speed axie, £1,100.

£1.100.

BEDFORD. 37-seater Burlingham body finished
1954 in red and ivory with fawn and red interior.

1811-up roof. £1.250.

1954 SENTINEL with 5-speed box, 39-seater
acceptage of the seater of th

Used Passenger Vehicles (contd.)

1954 SENTINEL, choice of four, 40- and 44-seater aervice buses, certificate of fitness to 1964, £700

ash a service buses, certificate of fitness to 1964, £706

1954 SENTINEL, full-front 35-seater body finished in red with red interior, 5-speed box, certificate of fitness to 1964, £700.

1953 BEDFORD with in reason with autumn tini interior and fitted with heaters, lift-up roof and Formica casing penels, certificate of fitness to 1963.

1953 BEDFORD, petrol, 36-seater Plazton body, retrol body, finished in red and cream with red interior and fitted with lift-up roof, £1,200.

1953 BEDFORD, petrol, 36-seater Yeates Rivers body, finished in red and cream with red interior and fitted with lift-up roof, £1,200.

1953 2 to tyres, with Eaton 2-speed asile, £850.

1954 A.E.C. Mark 4, 41-seater Duple body finished with lift-up roof, heater, Formica casing panels and armirests, certificate of Enterior and fitted with adult on the strings and the district of the strings of

1950 LEYLAND 33-seater, Plaxton full-front body. 1949-59 A.E.C., 9.6 engine, 33-seater Windover body, holice of two, 275 each. 1947-8-9 LEYLAND PS1, choice of six at 2250 each.

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1960 FORD 11-seater, low mileage, £675. 1958 BEDFORD (petrol) Planton 41-seater, choice of five, from £2,425.

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1957 COMMER TS3 41-seater Duple, £2,450. 1953 LEYLAND Royal Tiger 41-scater.

1953 CROSSLEY 37-seater Churchill. PHONE, PENDLETON 5331. 896-273

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1950 cosch, this machine is definitely unmarked and in rew condition throughout and cannot be repeated, £2,250.

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THIS CHASSIS IS ALSO AVAILABLE WITH FULL
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1955 And 1956 A.E.C. Reliance Duple Britannia 47, exceptionally clean and almost unused. from the seaside.

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1952 A.E.C. Mk. IV (underfloor) Burlingham Senguil

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1951 39, recently resoraged blue and cream, red interior, another very useful humpy coach at special low price. Another 37-seater Royal Tiger Burlingham also in

1951 DAIMLER Freeline Burlingham Seaguil, 35, condition, a most comfortable coach, special low price.

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1954 ALBION full front, Duple, diesel, certificate of fitness 1964.
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1951 Certificate of fitness 1962.
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1958 BEDFORD Vegas, 37-41-seaters, red interior, 1958 green exterior, choice of three, £2.850. BEDFORD petrol Duple 41-seater, green interior, Formica side casings, heater, radio very clean, certificate of fitness March, 1961, £2.660. Petrology of the petrology

1955 exterior, very clean, certificate or nunes annotate, the control of the cont

£1,475.

1951 s.ats. Disc interior green-cram exterior, certifi-cute of filnes June, 1961, £1,450.

1950 ALBION diesel 31-scater, Reading bodies, very

1930 Chean, certificate of fitness 1962, choice of two, 1947 LEYLAND PSI 34-seater buses, rear entrance, 1947 Choice of three, £135 each.

1946 7-8 BEDFORD OB chassis, fitted 29-seater starting of the seaters, one owner only, choice of six from £185, 1947 seaters, clean machines, from £195, 1947 seaters, choice of the several from £190, 1947 seaters, choice of the seaters, choic

1953 BEDFORD Burlingham 35-seater plus courier, marson and red, heater, certified 1963, £1,250.
1961. £1,250 and red, heater, reclining seats, certified July,

1751 and red, heater, recilining seats, certified July, 1961. £1,250.
1950 A.E.C. 9.6 Duple 35-seater, maroon and red, 1950 heater, certified 1962. £500.
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4-SEATER COMMER, luxury seating, £550; 35-seater Dennis, 1950, £595; 41-seater Bedford, 1956, £2,490, H.P. can be arranged. Please phone Shaw, Market Deeping 2224.

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1960 Thames Plaxton all-hide upholstery, heater, 1960 discs, £3.500. Plaxton, red and rream, radio, heater, discs, £3.500. Plaxton, red and rream, radio, heater, discs, £3.450. red and cream, heaters, choice of two £3.450, red and cream, heaters, choice of two £3.950. Thames Duple, radio, heaters, wheel discs, £3.2500. Duple, radio, heater, & moulding, 25.850.

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to nally clean, 22,650, 1957, BEDFORD Plaxton, dome quarters, Formita 1957, BEDFORD heaters, d'scs. Windtone horns, blinds to all windows, domes and quarters, reconditioned

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NEW FORD Thames Plaxton Embassy 41-scater, fitted with Perspex quarters, Formica side panels, heaters, radio and microphone, interior red moquette, immediate NEW FORC Thames Duple Yeoman 41-seater, fitted with Perspux quarters, Formica side panels, heaters, radio and microphone, interior red moquette, immediate

delivery.

1959 body, titted with radio and heater, also many other extras, certificate of finess 1965; choice of two.

1958 LEYLAND figer Cub. 41-seater full-luxury pupel and pupel first and body. Front entrance, radio in excellent condition heaters, top sliding windows in excellent condition throughout, certificate of two.

10 Each page 2 | 1055, choice | 1055

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1956 Buple body with Perspex quarters, Formica to gradient and the property of the property of

of fitness 1965.

1955 BEDFORD Super Vega, 41-seater full-luxury

Formica side panels, top sliding windows, interior autumn

tint, in good clean condition throughout, certificate of

fitness 1965.

1955 COMMER TS3, 39-seater full-luxury Plaxton Venturer body, fitted with heater, lift-up roof vents, in good clean condition throughout, certificate of

1954 BEDFORD Super Vega, 36-seater full-luxury
Duple body, fitted with heater, lift-up roof
vents, in good clean condition throughout, certificate of

vents, in good 'lean condition throughout, certificate of fitness 1962.

A.E.C., 9c engine, full-front 39-seater, full-in good tyres, on the condition observation coach, good tyres, certificate of fitness 1962.

1950 body, Formica side panels, heater, in good clean condition throughout, certificate of fitness 1964.

1950 ALBION, 35-seater full-luxury Duple body, fitted with heater, interior blue patterned of fitness 1963.

1950 Model BEDFORD Vista, band-operated door, formica side panels, in good clean condition throughout, certificate of fitness 1963.

1950 Model BEDFORD Vista, band-operated door, formica side panels, in good clean condition throughout, certificate of fitness 1963.

SEVER, 48 BEDFORD Vistas, 29-seater Duple bodies, certified 1961-62; choice of several.

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1952 CROSSLEY, 35-seater Strachan body, certificate
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DOUBLE-DECK buses, 58 seats, in running order; two one 1948 Daimler CVG6; also one 1948 Daimler CVG6; also one 1948 Daimler CVG6; also one 1948 Daimler CVG6 (58 seats), not in running order. Quantity of A.E.C. chassis and engine spare parts for above chassis, and also A.E.C. 7,7-litte engine. Inspection at Wheatsheaf Depot. Sunderland. Full particulars and tender form from the General Manager. Sunderland Corporation Transport. Monkwearmouth. Sunderland (phone 5231). Ollers for one ore should be made not later than Wednesdurff February 22, 1961.

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fitness 1966: choice of two.

1951 LEYLAND Royal Tiger. Duple body, 41-seater, blue and cream, red interior, certificate of

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tion, very little was a serior green, ex large private condi-tion, very little was a serior green, ex large private con-cern, in good condition.

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1960 September Sept. 41-scater Duple Super Vega.
1958 COMMER T33, 41-scater Plastion, radio, heater, certificate of fitness 1965, grey-green.
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1956 heater distance of fitness 1965, grey-green.
1956 heater distance of fitness 1965, grey-green.
1956 heater distance of fitness 1965, grey-green.
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1961 Two FORD Yeoman Burlinghams

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LEYLAND PD2s, 1949, 8-ft. wide bodies by Brush, 53-seater, low bridge, powered by 0600 engines, all carrying certificate of fitness and exceptionally clean.

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A.C.C. Gardner or A.V.W. engine, certificate of fitness, 238-seater makes available, too numerous Leader and the condition of the co

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Luton Vans and Pantechnicons Wanted WANTED. Large pantechnicon semi-trailer to carry
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1953 LEYLAND Octopus, 3,600-gal, fuel-oil tank, 1951 A.E.C., 3,600-gal, fuel-oil tank.

MMEDIATE delivery for all the above.

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1956 ATKINSON 6LW 8-wheeler, fitted new 3600
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1,300-GAL. AUSTIN chassis, nice clean vehicle.

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1960 BEDFORD York 14-ton articulated tipper, as new. Waltham Cross 22142. 897-x1651

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New COMMER TS3 Unipower third axie, 18-ft, body,
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DODGE 7-ton R6 engine (reconditioned), Eaton
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1952 FORD P6 tipper, very good condition, 5-yd. approved applicants. Phone, Bettey-leath 7108. 896-404 X 4 FORD. fitted Perkins F6, hydraulic tipper check of two. C. Russett, 155 Millbank St., Northam. Southemptous 2659.

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P. Bates, Sunniside Farm, Iveston, Leadgate,
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CALIBRATED tipping forries urgently required.

VEHICLES from 9 cu. yd. and upwards for haulage Very from Ebbw Vale to Llanwern, good rate, prompt pay-ment, B licence arranged. Phone, Ebbw Vale 2220. 896-466

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NEW B.M.C. diesel tractor unit, fifth-wheel coupler. SED tractor units always available.

1957 ATKINSON SLW tractor unit, fifth-wheel, vacuum brakes.

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Phone 3631.

BEDFORD A model, 2-speed axie, brand-new petrol engine, reasonable offer.

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FODEN timber tractor complete with Foden winch, in first-class order, also one Lacrosse trailer; will sell separately. Tadworth (Surrey) 2370.

1955 BEDFORD 10-ton, diesel. Scammel unit, perfect, £350. Pirbright Garage. Pirbright Rd... Southfields, S.W.18. Vandyke 6188.

1959 SEDDON 12-ton artic. unit, latest-style cab, 2-speed axle, 5-speed box, in exceptionally clean

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1956 air brakes, in very good order.

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1954 brakes, in excellent order.

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1958 brakes, in excellent order.

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TRAILER Dollys, various size tyres, complete with wheel, from £80 each. L. W. Vass, Ltd., Ampt Bedford, Ampthill 325.

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HUNDREDS of reconditioned trailers of all types always in stock.

New trailers, any pick-up, immediate delivery.

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POUR 10-ton Scammell drop-side teallers, 20 ft. long. 9,90 x 20 tyres, good condition.

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15-TON B.T.C. trailers from atock. Feniand Trans-port Services, Ltd. Phone, Thorney 371, 896-97 CARRIMORE retractor late-type trailers, three 24-ft. Oby 7-ft. 4-fn., drop sides, excellent condition, lying Coventry 2375 each, Also Austin patrol-engined tractor unit with retractor coupling, 1953, £100. Merriworth Engineering. Ltd. Dartford 2117.

February 17, 1961—THE COMMERCIAL MOTOR 73
(Supplement)

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MERRIWORTH 25-ft, flat, fifth-wheel coupling. MERRIWORTH 26-ft. flat, auto-fifth coupling.

MERRIWORTH 26-ft. flat automatic coupling (will fit DEMONSTRATION trailers available.

BINLEY ROAD. COVENTRY.

2-WHEEL new and used trailers and chassis for private and commercial use, complete range in stock, Lawton-Goodman, 135 Crickelwood Broadway, N.W.2. Gladstone 3226.

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25-Fr. 1-2-ion Scammell trailer, platform body, fifth-wheel pin.
5-Fr. 12-ion Scammell trailer, platform Scammell coupling.
ROWNHILLS MOTOR SALES. Watling St. (AS).
Brownhills, Staffs. Phone. Brownhills 2307: 2359.

2392. 850-174

SCAMMELL 8-ton 24-ft, drop-side semi-trailer, good tyres, sound condition throughout, £150.

STORMONT ENGINEERING CO., LTD., Tunbridge Wells. Phone 20323.

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OUR REPUTATION IS YOUR GUARANTEE. NEW York Freight-Master 26-ft, long alloy boxvan, S.A.E. coupling.

HIGH ROAD.

PONDERS END, ENFIELD, MIDDX.
Phone, Howard 1266.

CORNARD ROAD. SUDBURY, SUFFOLK. Phone 2301.

NEWPORT ROAD.

CARDIFF

20 FT. SCAMMELL 8-ton, 1,000-cu.-ft. box trailer, doors, tail board at rear, excellent condition, £250. 18-FT. SCAMMELL 8-ton box trailer, alloy box 1,2165. Phone, Coppermill 4777, 4713. D \$500 5-6-10n 4-wheeled trailer, 34 x 7 tyres, two bread, excellent condition, ready for use, 250 Agent Close. Orpington, Farnborough, Kent. Farnborough, Kent. Farnborough, Kent.

16-TON tandem-axle 27-ft. Scammell trailer, air brakes, 12-TON York trailer, 24-ft., Scammell quick release.

LANGLEY MILL COMMERCIAL VEHICLES, LTD., Langley Mill 2623 (Notts). 8:6-78

NEW 11-ton 23-ft. Scammell fist-platform trailer, £615. 10 TON flat Scammell trailers, 20 ft., 9.00 x 20 tyres, in excellent condition (choice of cight), £250 cach. PARSONS (GARAGES), LTD., Harlow, Essex, Phone, Potter Street 121, 896-202

MERTON ENGINEERING CO., LTD., OFFER:— 45-TON Rogers lank transporter trailer.

30-TON low-loading trailer, 20-ft. well. 25-TON low-loading trailer, 20-ft. well. 20-TON low-loading trailer, 16-ft. well.

19-TON Freuhauf 25-ft. scmi-low-loading trailer.

5-TON 8-wheeled machinery transporter trailer, 18 ft.

10 ms with ramps, loading height 2 ft. 9 in.

10 TON low-loading trailer, 16-ft. well, knock-out rear
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10 TON Seammell flat platform trailer, 20-ft. bed.

FAGGS ROAD.

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BRITAIN'S largest manufacturers of tipping gears and below tumper equipment, end- or 3-way tipping gears and bodies in timber or steel; also conversions; hydraulics for farm equipment, etc. Head office and works: Quebec St., Bolton, Phone, Bolton 62221-5, London Depot: 238-264 Goldhawk Rd., W.12. Phone, Shepherds Bosh 6262.

A UTOREX (LIVERPOOL), LTD., vehicle dism Holmes Lane, Liverpool, 21. Waterloo 2321.

SPENBOROUGH tippers, power hydraulic, handscrew and/or 3-way. We manufacture the most comprehensive range; specialists in wood or steel bodies; we canner your truck into a tipper. Full particulars from Spenborough Eng. Co., Ltd., Heckmondwike, Yorks, or from Messrs. B.B. Sales, Ltd., 88 Ciapham Rd., London, S.W. 9. PILOT tipping gear spares. Full range of parts always

Discourage of the state of the

WESTON tipping gear.

MAIN agents, London, Home and Southern Counties.
Full service facilities and large stock of replacement units and spares.

QUOTATIONS for complete rebuilds, including steel bodies, 3 to 7 cu. yd.

CONSULT us on all tipping-gear problems.

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HAINGE ROAD. TIPTON.

New tipping gears ex-stock most chassis. Agents for Edbro, Telehoist, Pilot, Anthony, Weston, Autolitt. Large stocks of spare parts and service pumps always available.

Trade inquiries invited.

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MILSHAW TIPPING GEAR CO. Hydraulic and screw gears, all types of power take-off units and models. Birch Lane. Bradford. Phone, Bradford 3271-2. MILSHAW tipping gears. Inquiries to Birch Lane. Bradford. Phone Bradford. Phone Bradford. Phone State of the Lane. Bradford. Phone State of the Lane. Bradford. Phone State of the Lane. Solvent and wooden bodies. Manchester Rd., Bolton. Phone 5343-6-7. London offlice: 3 Southampton Place, W.C.1. Phone, C ancery 530. 896-738

Spare Parts and Supplies (contd.)

TOW ROPES

15-FT. heavy steel wire tow ropes, complete with hooks and chains. £3 each; carriage paid, cash with order. Cundey and Stewart, Ltd., Alfreton, Derbyshire. Lea-brooks 477.

TYRES AND TUBES

STUCK tyres and tubeless leakers com by fitting with Tyreprim (read.) anti-covers frozen to unireated rims, apply penetrant-lubricant. Guaranteed harmles from all main factors

W. VASS, LTD., Amptinii, Bederote, Amptinii 222-924

36 X 8 new 12-pty, 423: 140-pty, 425: 900 222-924

20 Trackarpt 16-pty, 423: 10s.: 14-pty, 425: 10s.: 9.00 at 10s.: 10s.: 10s.: 10s.: 10s.: 9.00 at 10s.: 10s

Tyres and tubes, 69 108. each 20 107 108. Simpley 227-675 27 108. 650 x 20 608. Carriage extra. Tooling 110.40 x 8 tyres and tubes, 67 108. each 20 10.00 x 20 tyres and tubes, 67 108. each 20 10.00 x 20 tyres and tubes, 67 108. each 20 10.00 x 20 tyres and tubes, 67 108. each 8 108. each 20 10.00 x 20 tyres and tubes, 67 108. each 20 10.00 x 20 tyres and tubes, 67 108. each 20 10.00 x 20 tyres and tubes, 67 108. each 20 10.00 x 20 tyres on part-used tyres with prominent (plain) treats. Given on approval against cash or check each 20 10.00 cm seven days.

Tyres and Tubes Wanted
WANTED, tyres of all types and sizes, apot cash
H. Matthews, Ltd., 97 Stockwell Rd., London,
222-936

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ARIMAR for scientific welding repairs under Barimur money back guarantee. Cracked and broken cylinder beautiful to the control of the control of the cracked and broken cylinder beautiful to the cracked and broken cylinder beautiful to the cracked broken crankshafts and all other motor and diesel pairs, perfectly repaired by Barimar, Speedy delivery and low costs, Barimar House 22-24 Peterborough Rd. Fulham, London, S.W.6. Renown 2147-8. Night calls, Renown 2148. Grams, Bariquamar, Waigreen, London, Branches at Birmingham, Newcastle upon Tyre and Glasgow also operating at GECKEAM). LTD. the Aspecialists in welding, repairs to defective crankease London, Searboxes, etc.

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WHEELS

CROSSROADS COMMERCIALS, LTD., Gildersom near Leeds. Morley 4144-5-6, All makes and size near Leeds. Morley 4144-5-6. All makes and sizes in stock.

USED UNITS, Whittlefield, Burnley (phone 2262).

All makes and types in stock.

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POHN CHARLTON (BOLTON), ITD., commercial vehicles and spares. Bent Street Works, Kearsiey, near which wheels in stock of all types and sizes, English and American.

WHEELBASE EXTENSIONS

BAICO wheelbase extensions to all popular makes of commercial vehicles, including Austin, Bedford, Commer, Dodge, Ford, Guy, Morris etc, Baico Potents, Ltd., 327-9 High Rd., Chiswick, London, W.4. Chiswick, 2286-7.

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WINDSCREEN assemblies, half-drons, sliding windows, manufactured alloy brass-steel. Quick frame repair and reglazing service. British Steel Frame Co., Ltd., 205 Cambridge Heath Rd., London, E.2. Shoreditch 3272-5. PERSPEX cut to size and pattern. Denny, Ltd., 13 Netherwood Rd., W.14. She 5152, 1426. zzz-65

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BUSINESSES, PREMISES, OFFICES, ETC.

COR sale by private treaty, sound and established transport business, 20 tons public A licence, only principals need apply. Box CM951, care of "The Commercial Motor."

SOUTH COAST freehold garage business for sale, Commercial diesel engineers. Repairs and vehicle sales agencies, etc. Large main road site in industrial area inquiries invited. Box CM9322, care of "The Commercial Motor." Motor ale, Cheshire. 10 miles Crewe, haulage depot with Motor ale, Cheshire. 10 miles Crewe, haulage depot with filling station, office, amall showroom, repair shop and park for 30 vehicles, main road. Box CM944, care of "The Commercial Motor."

of "The Commercial Motor."

MIDLANDS. Old-established and expanding long-distance general carrier and haulage company operating modern fact of vehicles mainly A licences, total unladen weight, 992 tons, including freehold premises and land for beautiful to the control of the company as going concern, capital involved £55,000, annual net profits in region of £11,000. Walker, Walton and "anson, Chartered Surveyors, Byard Lane Nottingham. Phone 34272.

Phone 54272.

GRANTHAM. Yard, workshops, flat, two petrol pumps.

Ref. 546. Baileys, Westminster Bank Chambers.

896-36

MAULAGE Business for sale, north of England, 33.

1 vehicles, 8-tons—100-tons capacity, all types of traffic, annual turnover approximately £25,0,000. For further details apply:—Box CM9618, care of "The Commercial Motor."

Miscellaneous Advertisements (contd.)

CORNWALL. Private bus/coach business operating daily service to leading town and additional services. School contracts, taxi work. Licences, excursions and tours. Considerable scope. Owner other interests. Freshold cottage available. Goodwill and licences. Freshold cottage available. Goodwill and licences. Freshold cottage available. By Contract of the Contract of

STATED Company, Councerter Area, seven vehicles, all HST-190-190 and B licence, including large-capacity varus and heavy articulated units, also area storage and gaarge premises on London-South Wales trunk road. Offers invited. Box CM9615, care of "The Commercial Motor."

HAULAGE business, North Western area (limited company), approximately 120 tons A licences and 164 tons contract licences; good normal user conditions for long-distance work, bulk tippers. Write Box CM9610, care of "The Commercial Motor."

AULAGE business, Bristol area, consisting of seven 1957-60 diesel forties and 32 tons B licence with very social forties and 32 tons B licence with very social forties are seven for a finite company, price £10,000.

We have haulage businesses available in most areas and should be pleased to receive your inquiris. Fuller particulars of these businesses can be supplied on request and some hire-purchase available.

WILDE AND BENNETT. LTD., HADFIELD, MANCHESTER.

Phone, Glossop 2902-3. AFTER HOURS 2356.

896-319

Miscellaneous Advertisements (contd.)

OLD-ESTABLISHED transport business. East Midland Area. 28 tons u.w., A licences, wide Normal User Owner retiring. H.P. arranged. Apply Box CM9613, care of "The Commercial Motor."

11/2 TON A, three vehicles. 3-ton B, one vehicle, wide Normal User, excellent goodwill, Birmingham area. Box CM9614, care of "The Commercial Motor."

HAULAGE business comprising five A licence vehicles, efficiently and 8-wheelers, 10 B licence vehicles, tippers, established 1924, for sale owing to lilness. Box CM9416, care of "The Commercial Motor." 896-446

Businesses, Premises, Offices, etc., Wanted

RANSPORT business required in North London-Essex Francisco and ordinary A licences and operating space. Francisco and the state of the state of the state which will be said to the state of the said seed to be said seed to Box CM967, care of "The Commercial Motor 986-40

WANTED, haulage husinesses with special A licences ordinary A licences and B licences in any part of the country, or alternatively we are prepared to sell your business for a commission as we have numerous clients on our books.

WILDE AND BENNETT, LTD.

HADFIELD, MANCHESTER, Phone, Glosson 2902-3. AFTER HOURS 2356.

E. R. R.A.F., STAFFORD

the main Sandon Road, 2 miles from Stafford Town Centre.

SOUTH AND STUBBS

ARE INSTRUCTED TO SELL BY AUCTION ON

WEDNESDAY, MARCH I, 1961,

HEADQUARTERS SITE, R.A.F., STAFFORD, A LARGE QUANTITY OF SURPLUS GOVERNMENT STORES

INCLUDING MISC. PLANT SPARES, M.T. SPARES, AERO ENGINE SPARES, PARACHUTE PACKS AND CUSHIONS, KHAKI AND WHITE NYLON PARACHUTES, KITCHEN EQUIPMENT, COMPRESSORS. BEDFORD PISTONS AND LINERS AND SPARES, WOOD CASES, BICYCLES, FIRE EXTINGUISHERS, ETC.

SALE AT 11.00.

ON VIEW: Monday and Tuesday, February 27 and 28, from 10 a.m. to 4 p.m. and morning of Sale to 11 a.m. CATALOGUES 1s. each (P.O. only) from the Auctioneers.

Auctioneers' Offices: 28 Eastgate Street, Stafford.
(Phone 2331-2.) 896-28

CONTRACTS FOR HIRE AND WANTED

MANIED

MAXIMUM canacity carrying tankers, All types available. Hatter Brox., Grays. Essex. 222-665

CONTRACT wanted for 12-ton artic., with two 25-ft. trailers, based between Liverpool and Preston, could be painted your own name and colours, any distance and return loads from anywhere, this is a first-class modern and return loads from anywhere, this is a first-class modern vehicle. Box CM963, care of "The Commercial Motor."

OLD-ESTABLISHED Surrey haulage contractor requires for new 10-ton 18-ft, drop-side lorry. A licege, good commission for introduction. Box CM9617, care of "The Commercial Motor."

ONTRACT required for 6-wheel bulk tipper. Box CM9125, care of "The Commercial Motor." 896-413 required for 6-wheel bulk tipper. Bo care of "The Commercial Motor" 896-41

CONVERSIONS

HENDYS FOR FORD.

BRITAIN'S FIRST FORD DEALER. DIESEL 4D AND 6D ENGINES WITH REAR-END CONVERSIONS AT LOW COST. LET US QUOTE YOU.

PERCY HENDY, LTD., SOUTHAMPTON 28331 (EIGHT LINES).

CONVERT YOUR VEHICLES

FORD 4D AND 6D POWER

ALL MAKES OF VEHICLES UP TO 7 TONS CAN NOW BE FITTED WITH THE COST-CUTTING FORD 4D AND 6D ENGINES, MEANING:—

LOWER INITIAL COST, MORE M.P.G., CHEAPER MAINTENANCE,

And the cost of conversion is very reasonable Let us quote you for your vehicles.

QUICKS FOR FORDS.

INDUSTRIAL UNIT SALES DEPT .. WILMSLOW ROAD, CHEADLE, CHESHIRE.

Phone, Mercury 2345-6.

FORK-LIFT PALLETS PALLETS made with reclaimed timbers to any required size, loquiries invited, Keen prices, Sam B. Allison, Ltd., 48 Whitevale St., Glasgow, E.1. Phone, Bri 897-9684.

FORK-LIFT TRUCKS

HIGH-QUALITY forklift trucks!! MMEDIATE delivery!!! Petrol, diesel and electric!!

OVENTRY Climax, petrol. 1.500 lb., 9-ft. lift, £550. CLARK, petrol, 4,000 lb., 9-ft. lift. £595.

LARK petrol, 6,000 lb., 9-ft. lift, £695.

"LIMAX, petrol, 4,000 lb., 12-ft. lift, £750,

CLIMAX, diesel, 5,000 lb., 12-ft. lift, £1,000.

STACATRUC, diesel, 5.000 lb., 12-ft. lift, £950.

ANSING Bagnall, electric, 2,300 lb., 10-ft. lift, with charger, as new, 1958 model, £1,000.

PULL details on application, for appointment to view, pseed Electrics, Dept. CM, Church St., Basford, Nottingham, Phone, 75716.

-TON Coventry-Ctimax forklift, £675. Stout, London, Bermondsy 1136.

Miscellaneous Advertisements (contd.)

INSURANCE

PAUL CHILDS. LTD. 58 BIRCH GROVE.

LONDON, W.3. Acorn 2398. no-claims bonus to 40%. M.

BEST market rates—no-claims bonus to 40° or quarterly payments accepted.

LOADING SHOVELS

OVERHAULED londers. MERTON 454 two-way loader, 1959, four-wheel-drive, £1,675.

CHASESIDE diesel 500, 1957, in really good order, CHASESIDE diesel 500, 1957, in really good order, 2895 o.n.o.

MERTON R50 two-way loader, 1957, 1-cu.-yd. bucket, a nat-class machine at £795.

WEATHERILL diesel 2HCR, 1945, thoroughly covernauled, £675 o.n.o.

LatterErilLt diesel 3H overloader, 1956, carefully overnauled, £675 o.n.o.

UIRHILL diesel loader, 1953, ex council machine, good running order, £25.

CHASESIDE cable loader, 1950, petrol engine, ex council machine, in good running order, £75.

RAGNON ENGINEERING CO., LID., £75.

MERTON ENGINEERING CO., LID., £75.

RAGNON ENGINEERING CO., LID., £75.

897-9750

MISCELLANEOUS

STEEL-FRAMED building

125 FT. x 120 ft., giving uninterrupted floor space, approx. 15,000 sq. ft., steelwork as new, complete framework only, £2,950 delivered to site within 100 miles E. L. PITT AND CO. (COVENTRY), LTD., Brackley
F. Town Station, Brackley, Northania. H.P. Companies please note. Norton and Hunter (London), 183 Leytonstone Rd., Stratford, E.15. We wish to buy all types of repossessed commercial vehicles. Maryland 5077.

PACKING AND SHIPPING

OYAL 5161. The quickest way of shipping your car anywhere in the world is through;— FLEXHILL SHIPPING CO., LTD., 6 Rangoon St., E.C.3. 896-741

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A M.I.M.I., City and Guilds, A.M.I.Mech.E., etc., on "No pass, no fee" terms. Over 90% successes. For details of exams, and courses in all branches of auto, diesel, area, mechanical engineering, etc., write for 145-pase, handbook, fre. B.I.E.T. Open, 7255, 29 Wright's diesel, area, mechanica page, handbook, fre-Lane, London, W.8.

F'IRST-CLASS fully experienced traffic clerk required for London clearing house, Mainly concerned with Midland Area Salary and commission. Write giving full details, experience, etc. Box CM9115, care of "The Commercial Motor."

Commercial Motor.

EVERIENCED clearing house manager required for London office of well-known company, salary and commission. Write giving full details, experience, etc.

Box CM9F16, care of "The Commercial Motor."

EXPERIENCED Commercial-vehicle Salesman required, must be Ford-trained with sales record, generous countries along with exclusive territory offered to the Sales Sales with exclusive territory offered to the Sales Manager, Gilbert Rice, Ltd., 2-14 Worthing Rd., Horsham, Sussex.

A SSISTANT TRAFFIC SUPERINTENDENT.

A PPLICATIONS (in confidence) are invited by a large road haulage undertaking in South Wales, from candidates with good educational background, personality, and initiative. Knowledge of road haulage working, and ability to supervise essential.

PROGRESSIVE and pensionable post for successful applicant. Apply stating age, experience, and salary required to Box CM962, care of "The Commercial Motor."

Young man required to train as commercial vehicle salesman, must be keen to enter the commercial motor trade on the sales sale. Apply in writing to Box CM952 care of "The Commercial Motor."

EXPERIENCED commercial vehicle salesman required, the more experience you have the greater your remuneration both in salary and commission, all expenses paid, car supplied. Apply in writing to Box CM955, car of "The Commercial Motor."

of "The Commercial Motor."

"ECHNICAL Sales Representatives required by oldestablished and progressive trailer manufacturers, one
cover Midlands and one for Northern England, Commercial vehicle background and sales experience essential,
commencing salary according to qualifications. Commission
will be paid. Box CM9612, care of "The

Soft-salar" Commercial

MAIN B.M.C. distributors in Surrey area require to experienced in all supects of the commercial vehicle sales manager. Applicants must business, and must have a first-class record. Excelle salary and prospects for the right man. Apply in fit instance by letter to Box CM968, care of "The Commercial Motor."

TRAILER building company require a competent farughteman with experience of tractor 5th wheel and automatic coupling installations to work on interesting development of existing and new designs. Bor CM9010 care of "The Commercial Motor."

EXPERIENCED commercial vehicle asleuman required by Vauxhall-Bedford main dealer, West London. Salary and commission, car provided, pension scheme. Conforms treated in confidence. Box CM9314, care of "The Commercial Motor."

TRANSPORT manager required, N. London, A-licence feet; only alert, knowledgeable applicants need apply. Write full details of experience and salary required. Box CM945, care of "The Commercial Motor," 896-473

FOREMAN wanted for small modern bodyshop specializing in commercial and P.S.V. repairs, good scope to live, energetic man with good records. Apply Box CM9511, care of "The Commercial Motor." 896-502

S ALESMAN required by large internationally known sories for the London area, excellent opportunities for top grade energetic man, preferably well known in motoring circles, salary, bonus, expenses and car provided. Write riving details of sales experience and salary required Box CM9515, care of "The Commercial Motor." 97-9718

February 17, 1961—THE COMMERCIAL MOTOR 79 (Supplement)

Miscellaneous Advertisements (contd.)

CITY OF LIVERPOOL.

EDUCATION COMMITTEE.

COLLEGE OF BUILDING.

T. E. HALL, Dip. Arch, A.R.I.B.A.

APPLICATIONS ARE INVITED FROM SUITABLY QUALIFIED PERSONS FOR THE APPOINTMENT OF

ASSISTANT,

MOTOR BODY WORK PANEL BEATING

truli timel, to teach the theory and practice of panel beating, welding and ancillary subjects to apprentices who nee preparing for the City and Guilds of London Inatitute examinations in Motor Body Work. Salary, £320 x £27 108. to £1,000 per annum Barnham Technical Report). Additional graduate and training allowances, where applicable, will be paid and the commencing salary will be assessed according to previous industrial. professional and teaching experience. Application that have had good experience in new and repair work in the motor body industry. Facking experience is desirable. Application forms (returnable by March 3, 1961) and

Application forms (returnable by March 3, 1961) and further particulars, from H. S. Magnay, M.A., Director of Education, 14 Sir Thomas St., Liverpool, 1.

THOMAS ALKER. Town Clerk,

and Clerk to the Local Education Authority

GOOD fitter required to assist in maintenance of commercial fleet. B.M.C. and Bedford diesel experience essential. Good wages. Pension scheme. Box CM9521, care of "The Commercial Motor." 1996-x1750

T.R.A.NSPORT manager's assistant required by North and long distance, starting salary 5600-5709, good prospects of promotion, permanent pensionable post. Details of age. experience, present salary to Box CM961, care of "The Commercial Motor."

SALESMAN wanted for selling commercial vehicles on own initiative, Austin dealers. Apply Mr. Davey, J. R. Inwards, Ltd., High St., Ruialip 3033-4.

A SSISTANT works manager-receptionist required for modern garage, must have good working knowledge of motor trade experience in customer relations and workshop progress chasing, excellent prospect of promotion, West Middlessen area. Write Box CM964, care of "The Commercial Motor." 896-42

ALES manager equired by small, but developing some monor trade organization. Successful applicant will be experienced in car and commercial whelice reading, participation in return will be ausplied with basic salary, participation return will be ausplied with basic salary, participation in results and a large flat. Fullest periturious with age and present earnings in confidence to Box CM995, care of "The Commercial Motor."

SITUATIONS WANTED

COMMERCIAL motor mechanic, City and Guilds Mechanic Technicians and National Craftsmap's Certificate, position with unfurnished accommodine. Box CM967, care of "The Commercial Motor." 896-328

STORAGE AND DISTRIBUTION

ENHAM STORAGE CO., LTD., near Maidston

Kent. Southern England's foremost warehouse
stion of all classes of commodities by own coveransport throughout Kent, Surrey and Sussex. Phon
enham 441 (five lines).

Lenham 441 (tive times).

Strok Age available with easy access to Liverpool birkenhead docks. Transport facilities to all parts the country. Phone, Transport Department, G. and Motors (Hooton), Ltd., Willaston (Wirral) 3155, 2250 (1997).

EXCELLENT storage accommodation available in London Collection and redistribution as required. Maryland 8558.

TENDERS

METROPOLITAN BOROUGH OF CAMBERWELL.

TENDERS ARE INVITED FOR THE SUPPLY OF:-

(a) ONE 2-TON KARRIER TIPPING TRUCK

(b) TWO 25 CU. YD. BIN LIFT REFUSE COLLEC-TION VEHICLES.

(c) ONE KARRIER YORKSHIRE MECHANICAL SWEEPER.

(d) ONE 3-TON BEDFORD LONG-WHEELBASE TIPPING TRUCK.

(c) ONE 5-TON BEDFORD LONG-WHEELBASE TIPPING TRUCK.

(f) ONE 5-TON BEDFORD LONG-WHEELBASE TIPPING TRUCK WITH HYDRAULIC LORRY

LOADER

(g) ONE 500-GALLON DENNIS GULLY EMPTIER. (h) ONE MECHANICAL LOADING SHOVEL.
1) CU. YD.

(I) ONE THWAITES 15-CWT. DUMPER.

Tender forms on application to the Borough Engineer and Surveyor, Town Hall. S.E.5. Closing date Thursday, March 2, 1961.

461

Miscellaneous Advertisements (contd.)

MOUNTAIN ASH URBAN DISTRICT COUNCIL.

THE ABOVE COUNCIL INVITE TENDERS FOR THE SUPPLY AND DELIVERY TO MOUNTAIN ASH OF THE FOLLOWING VEHICLE:—

KARRIER GAMECOCK 10-CU.-YD. ALL-STEEL REFUSE COLLECTOR.

Type 3-4-ton low-loading chassis on 27-in, x 6-in. 10-ply heavy-duty pneumatic tyres with twin rear and spare, with 3-seater cab and embodying a Rootes high-speed direct-injection 2-stroke diesel engine. 4-speed synchromesh gearbox, servo-assisted hydraulic brakes and fitted with semi-circular steel sliding dust covers, double-noening rear doubles, power with rear steepping gear together. The tender for the vehicle must include for painting-lettering to the Council's requirements, licence holders and for number plates.

Tenders stating delivery period must be sent in plair scaled envelopes endorsed "TENDER FOR LORRY" seas to reach the undersigned not later than noon or Monday, March 12, 1961.

The Council do not bind themselves to accept the lowest or any tender.

Town Hall, Mountain Ash. February 16, 1961.

B. GWYNNE RICHARDS. Clerk to the Council.

LEICESTERSHIRE, CHARNWOOD ROAD, SHEPSHED.

EXTENSIVE FREEHOLD TRANSPORT PREMISES.

AMPLE OFFICE ACCOMMODATION, WORKSHOPS AND ROOM FOR EXPANSION. TOTAL SITE AREA: 1,900 SQ, YDS. APPROXIMATELY,

FOR SALE BY TENDER.

FOR FURTHER PARTICULARS APPLY: DIVISIONAL SURVEYOR,

BRITISH ROAD SERVICES. LTD.,

O HARBORNE ROAD, BIRMINGHAM, 15 LATEST DATE FOR RECEIPT OF TENDER, MARCH 25, 1961. 89

> Manchester Corporation WATERWORKS.

TENDERS INVITED FOR

THREE

CRAWLER TRACTORS.

ALL DIESEL-ENGINED AND EACH COMPLETE WITH HYDRAULICALLY OPERATED ANGLEDOZER AND CABLE CONTROL UNIT.

General Conditions and Forms of Tender (returnable by Wednesday, March 1, 1961) obtainable from the Secretary, Waterworks Offices, Town Hall, Manchester, 2.

PRIMROSE GROUP SALES Clitheroe Rd. Whalley, THIRD AXLE and TWIN STEER CONVERSIONS FOR EXTRA PAYLOAD



Manchester Corporation WATERWORKS.

TENDERS INVITED FOR THE SUPPLY AND DELIVERY TO

POLAND STREET GARAGE, MANCHESTER,

OF EIGHT LAND-ROVER VEHICLES

AND ONE TRAILER.

Schedules, conditions and forms of tender (returnable by Wednesday, March 1, 1961) obtainable from the Secretary, Waterworks Offices, Town Hall, Manchester, 2.

MANCHESTER CORPORATION WATERWORKS.

Tenders invited for the supply and delivery to

POLAND STREET GARAGE, MANCHESTER OF 13

FORD COMMERCIAL VEHICLES OF VARIOUS TYPES.

dules, conditions and forms of tender (returnable by nesday March 1, 1961) obtainable from the Secretary, Waterworks Offices, Town Hall, Manchester, 2.

DEPTFORD BOROUGH COUNCIL

OFFERS FOR SALE:—
ONE SCAMMELL MECHANICAL HORSE WITH YORKSHIRE GULLY EXTRACTOR TRAILER

NE 2-TON KARRIER BANTAM VEHICLE (KGJ 779).

ONE SCAMMELL 12-CU-YD. BARRIER LOADER SEMI-TRAILER

ONE BOX-TYPE MORRIS VAN (HYU 370) ONE HOLMAN COMPRESSOR.

Offers on the appropriate form to the Borough Engineer, Deptford Town Hall, New Cross, S.E.14, by Wednesday, Council's Depot, Creekide, S.E.8, between 9 a.m. and 4 p.m. (Monday to Friday) by arrangement with the Mechanical Superintendent (Tid 3509).

The Council does not bind itself to accept the highest or any offer. 896-249

Miscellaneous Advertisements (contd.)

SOUTHGATE BOROUGH COUNCIL

SOUTHGATE BOROUGH COUNCIL INVITE TENDERS FOR THE SUPPLY OF A

NEW 5-CWT. VAN.

Forms of application may be obtained from the Borough Engineer and Surveyor, Town Hall, Palmers Green, N.13. The closing date is noon on Monday, March 6, 1961.

Town Hall, Palmers Green, N.13. February, 1961. GORDON H. TAYLOR. Town Clerk

BOOKS AND PUBLICATIONS

MAINTENANCE RECORD (Charnwood Series No. 59). A life history of each vehicle with tyre records. petrol and oil consumption. 4s. 6d. post free cords. DIESEL oil stock books. Cost books. etc. Send for descriptive list.

CHARNWOOD PUBLISHING CO., LTD., Coalvifle. Leiccelter.

THE OPERATORS' GUIDE TO THE TRANSPORT ACT, 1953. Explains the process of denationalization of road goods transport and the rights and liabilities of road transport operators. 32 pages, 1s. 6d. net from booksellers, or 1s. 8d by post from the publishers, Temple Press Limited, Bowling Green Lane, London, E.C.1. 222.

WHO'S WHO IN THE MOTOR INDUSTRY (Third MOTOR INDUSTRY) and Commercial Vehicle industries and a compresion of the Commercial Vehicle industries, and to allied organizations and trade associations. Includes sections on the Motoring Press, British Motor Clubs and an extensive Biographical Section. 548 pages. Price 42s. net or 45s. 6d. by post from the publishers, Temple Press Limited, Bowling Green Lane, London, E.C.1.

TONDON WHARVES AND DOCKS (2nd Edition).

London, E.C.I.

ONDON WHARVES AND DOCKS (2nd Edition), A

guide to the wharves and docks lining the river from
Teddington to Gravesend. Detail facilities afforded by
the wharves, together with 17 full-page maps showing their
London's dock area is included. Illustrated, 104 pages,
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card covers) from booksellers, or 8s. 2d. and 6s. 7d.
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Limited Bowling Green Lane, London, E.C.I.

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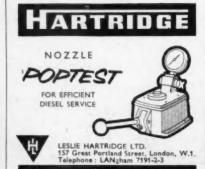
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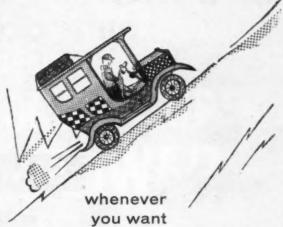


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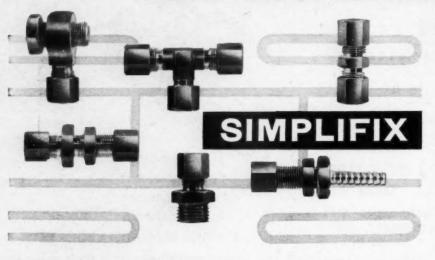
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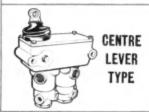
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